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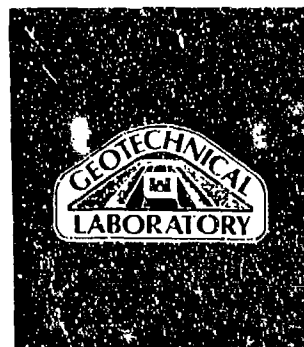
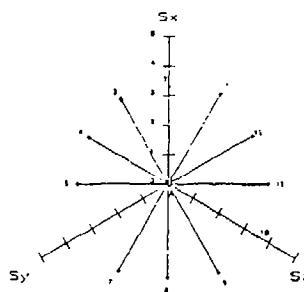
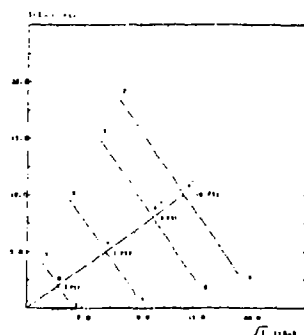
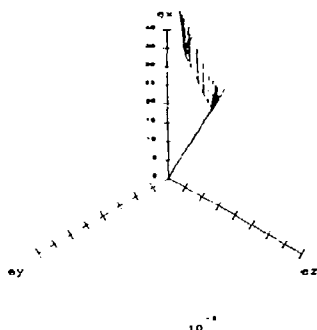
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TRUE TRIAXIAL AND DIRECTIONAL SHEAR CELL EXPERIMENTS ON DRY SAND

by

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19 ABSTRACT (Continue on reverse if necessary and identify by block number) This report contains results from experiments on Leighton Buzzard sand performed in the multiaxial cubical apparatus (MCA)--or true triaxial apparatus--and the directional shear cell (DSC). These experiments provide a data bank for calibrating constitutive models or for fundamental investigations of soil under highly generalized stress paths. The MCA experiments were performed under four levels of mean stress (2, 5, 8 and 10 psi) with each individual test being performed at a constant mean stress level. Thus, each experiment provides data on response of sand to changes in stress paths within a particular deviatoric plane. The experiments include purely proportional deviatoric paths to assess initial anisotropy of the specimens. The remainder of the tests are designed to highlight yield behavior of soil as it is often described by kinematic hardening models. A total of 134 MCA experiments are reported. The DSC experiments were designed with the intent to determine the effect that rotating the (Continued)					
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principal stress axes had on yield behavior. As for the MCA experiments, yield characteristics can be investigated through nonproportional stress paths within a particular deviatoric plane. In contrast to the MCA tests, the principal axes were rotated freely in the DSC experiments. A total of 48 DSC experiments are reported.

The intent of the report is to provide data necessary for research on constitutive relationships for soil. However, a brief account is given on useful analysis techniques to aid in interpretation of experimental results.

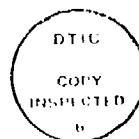
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PREFACE

The studies described in this report were performed under a US Army Engineer Waterways Experiment Station (WES), US Army Corps of Engineers contract to the University of Colorado at Boulder, Department of Civil, Environmental, and Architectural Engineering, as partial fulfillment of the scope of work stated in Research Contract DACW39-85-C-0080, "Research and Development Necessary for Experimental Investigation of Yield Characteristics of Sands under Arbitrary Deviatoric Stress Paths." The work was conducted between October 1, 1985, and December 31, 1987.

The Principal Investigators at the University of Colorado were Professors Stein Sture and Hon-Yim Ko. The contents of this report are to a large extent based on the experiments that Dr. M. M. Alawi performed for his Ph. D. thesis (1988). Professor David M. Wood at Glasgow University, formerly at Cambridge University, United Kingdom, was associated with the project during his stay at the University of Colorado in the period March-October, 1986. Dr. John F. Peters from the Geotechnical Laboratory (GL), Waterways Experiment Station (WES), was the Technical Monitor for the project. Dr. Peters worked under the direct supervision of Mr. G. P. Hale, Chief, Soils Research Center, and the general supervision of Mr. C. L. McAnear, Chief, Soil Mechanics Division, and Dr. W. F. Marcuson III, Chief, GL, WES.

COL Dwayne G. Lee, EN, was Commander and Director of WES. Dr. Robert W. Whalin was Technical Director.



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PART I: INTRODUCTION

1. This report contains stress-strain data that were obtained from laboratory experiments conducted in a multiaxial cubical apparatus (MCA; or true triaxial apparatus: TTA) and a directional shear cell (DSC). The data are presented in a table form. These data are also provided on PC/DOS diskettes (360 kB or 1.2 MB), which can be obtained from Professor Stein Sture at the University of Colorado at Boulder or from Dr. John F. Peters, USAEWES. The experimental details are also contained in Dr. M.M. Alawi's Ph.D. thesis (Alawi, 1988).

2. This report is essentially a data report or data-bank. It presents stress and strain tables and suggested display formats. It also describes how the experiments were conducted with references to other reports, papers, or theses where additional detailed information may be obtained. This report does not contain discussions on the experimental findings.

3. The report contains results from 97 MCA and 32 DSC successful experiments. A total of 134 MCA and 48 DSC experiments were conducted in this project. The data that are not presented herein were found to be inadequate or inconsistent due to heterogeneous deformation patterns, instabilities, etc. that were caused by shear band formation before or soon after peak strength was reached, or other forms of material or apparatus instability during the experiment. The goal of this effort was to achieve homogeneous deformation states in the specimens.

4. The MCA and DSC experiments were conducted on the same size cubical specimens (7.0 in.; 17.8 cm) which were prepared in the same manner. The MCA and DSC experiments involved both proportional and highly nonproportional loading histories. The MCA experiments were in most instances conducted on different deviatoric planes where the mean or octahedral normal effective stress remained constant during the pure shear or deviatoric loading process.

while the DSC experiments were carried out under plane strain conditions. The purpose of experimental program was to investigate the yielding characteristics of sand under arbitrary deviatoric stress paths. Experimental issues related to induced anisotropy, dilatancy, jump or continuous rotations of the principal stress directions (between 0° and 90°), and yielding on load reversal, were also to be described in terms of stress-strain response data in this project.

5. The purpose was also to create a stress-strain response databank for a particular granular cohesionless soil (Leighton Buzzard sand) for a given initial density ($D_r = 72\%$) that can be used to study fundamental behavior of granular soils subjected to unconventional loading histories and for calibrating or validating constitutive models.

6. The report is organized in 6 Parts and 3 Appendices. Part II describes the experimental techniques. The multiaxial cubical apparatus (MCA) and directional shear cell (DSC) are briefly described and references to publications where additional detailed descriptions are furnished are also given. The soil used in the experiments (Leighton Buzzard sand: LBS) and the specimen preparation technique are also described in this Part.

7. The experimental procedures that were followed in both MCA and DSC tests are described in Part III. It was decided to provide the necessary detail in this report so the reader is fully acquainted with the conditions under which the experiments were conducted.

8. The experimental program is described in Part IV. The MCA and DSC experiments are presented individually and given separate labels. The stress path diagrams and tables of tests in the various categories are also contained in Part IV.

9. Experimental results are briefly outlined in Part V. The arrangement of the stress and strain tables as well as other experimental output are described. The complete set of stress-strain tables are given in Appendix A.

10. Conclusions are given in Part VI. Brief assessments of the

experimental program are given together with a summary.

11. Appendix A contains the complete set of data in terms of stress and strain response tables as mentioned in Paragraph 9 above. The tables are not provided with separate descriptive titles, but they are identified by the particular code or label given to each experiment.

12. Appendix B briefly describes various formats and diagrams for displaying the results. These can also be used to display the performance or prediction of a constitutive model(s) superimposed on the experimental results.

13. Appendix C contains a list of symbols and conversions between SI (metric) and British systems of units. It should be mentioned that each Part where specific symbols and units are used also contains an explanation of each symbol and the SI or British unit in parentheses.

14. A list of references is given after Part VI. Tables and figures are included at the end of each Part that refers to these in the text. There are 197 pages in Appendix A, 17 pages in Appendix B, and 1 page in Appendix C.

PART II: EXPERIMENTAL TECHNIQUE

Introduction

15. This Part describes the experimental apparatuses (MCA and DSC) that were used in the investigation. The Leighton Buzzard sand (LBS) and the specimen preparation technique are also briefly described.

Multiaxial Cubical Apparatus (MCA)

16. The multiaxial cubical apparatus (MCA) that was used in the experimental program, has been described in detail by Mould (1983), Ontuna (1984), and Alawi (1988). The apparatus is one of eight similar flexible cushion-stress boundary devices that have been developed at The University of Colorado at Boulder during the past eighteen years. This particular MCA receives 7.0 in. (17.8 cm) cubical specimens. It is mainly operated in stress (load) control, although strain (displacement) control can also be maintained in the apparatus by means of an interactive control and monitoring scheme (Alawi, 1988).

17. The three applied principal stresses are controlled manually by the operator and virtually any stress path in principal stress space can be followed and any compressive principal stress state can be attained, including conditions where jump rotations between 0 and 90 degrees of unordered principal stress directions that occur in any combinations of major, intermediate, and minor principal stresses ranging from compression to extension (Sture and Desai, 1979; Mould, 1983).

18. The MCA has a relatively low applied stress capacity (200 psi; 1.38 MPa), but its stiffness is quite high. The precision of the strains measured in the apparatus has been assessed to be on the order of ± 0.00005 . It will be seen that the precision indicated in the tables is too high in most instances. The displacements of the specimen are measured at three points at each of the six faces of the cube by means of linear variable differential transformers

(LVDTs). The LVDTs were calibrated over the full range of specimen deformation. Accurate shear strains (maximum) up to 25% were measured. Further details are given by Mould (1983) and Alawi (1988).

Directional Shear Cell (DSC)

19. The directional shear cell (DSC) that was used in the experimental program, has been described in detail by Ontuna (1984), Budiman (1985), Sture et al. (1985, 1987), and Alawi (1988). As in the case of the MCA device, the DSC accepts a 7 in. (17.8 cm) specimen. It was developed during the period 1980-82, and it has since been used in several research projects. It is estimated that approximately 220 experiments have been conducted in the apparatus since its development.

20. The DSC is a plane strain device in its present configuration. It allows for independent control of applied normal and shear stresses to four exposed surfaces of the cubical specimen. It is operated in stress (load) control via the stress boundary conditions, very much like the MCA device. Strain (displacement) control can be performed in an incremental and approximate manner by monitoring the in-plane deformation increments and associated incrementally applied stresses, so that the strains conform to a prescribed strain path (Alawi, 1988).

21. The directions and magnitudes of the principal stresses transmitted to the specimen can be varied in either a continuous or discrete step-wise manner to simulate realistic proportional or nonproportional loading. The out-of-plane stress measured in the plane strain direction is measured by means of instrumented connection rods between the two lubricated end plates that constitute the plane strain boundary. Eight proximity transducers and twelve LVDTs are used to measure the specimen's displacements and monitor the apparatus' geometry (Alawi, 1988).

22. It is possible to maintain high accuracy of the applied stresses and measure the specimen's strain with high precision. It is estimated that the

stresses can be controlled within 0.01 psi (0.07 kPa), and that the strains can be measured to within ± 0.00005 . Also in this case it is seen that the precision indicated in the tables is often too high.

23. The operation of the DSC is essentially performed by manual control. However, the monitoring and measurement functions are carried out by a computer and data acquisition system. This is also the case with the MCA device. Since the apparatus has been modified in recent years, Dr. Alawi's thesis (1988) comprises the most current discussion of the DSC's components, capabilities, and limitations.

Soil: Leighton Buzzard Sand (LBS)

24. The Leighton Buzzard sand (LBS) used in the experiments described in this report, is actually characterized as Leighton Buzzard Silver sand due to its color. This sand should not be confused with Leighton Buzzard Red (or Orange) sand that has nearly the same grain size distribution and particle shape, but whose grains have a high feldspar content.

25. The Leighton Buzzard Silver sand, which later in this report simply will be termed Leighton Buzzard sand (LBS), was originally acquired in the summer of 1980 from Leighton Buzzard (Messrs. George Garside, 39 Hockliffe Street, Leighton Buzzard, Bedfordshire LU7 8HB, UK), which is located approximately 40 km northwest of London, UK.

26. It was at that stage specified by British Standard (BS) Sieve Size range 18 - 25 or 850 - 600 μ . After several years' use and weathering it was discovered that the LBS particles had become more rounded and a finer fraction below D_{10} had been created as seen in Figure 1. This was established when this research program was initiated in 1985. It is now characterized as a subrounded sand with US Standard Sieve Size range 20-40. The LBS particles have a specific gravity of solids (G_s) of 2.66. The material was reused in this experimental series.

27. All experiments were carried out on air dry LBS. The specimens were prepared air dry, and they remained air dry throughout the tests. No moisture was introduced into the voids at any stage of experimentation.

Specimen Preparation

28. The experiments conducted in both the MCA and DSC devices were, as mentioned earlier, performed on 7.0 in. (17.8 cm) cubical specimens, that were prepared in the same manner. The specimens were prepared at a relative density (D_r) of 72% by means of a dry raining technique in which a uniform and steady stream of LBS was poured from a long and narrow slot in a hopper device (Alawi, 1988). The hopper device and its structural support system was moved back and forth at constant speed relative to a mold, that was wrapped in a latex membrane or specimen bag. The mold was oriented orthogonally with respect to the direction of raining so that the accreting layer of LBS within the mold developed in a parallel fashion with respect to the base of the mold and at right angles with respect to the interior vertical walls or surfaces of the mold.

29. The average raining height was 24.0 in. (61.0 cm) and the slot width was 0.2 in. (0.51 cm). The slot length was 10 in. (25.4 cm). Visual observation of the raining process established that a minimum amount of sand was reflected from the side walls in the mold down to the accreting surface of the specimen. Nearly all the sand was deposited directly to the accreting surface where it either stayed or bounced later to stay permanently. Only the sand that bounced from the accreting surface to the wall and back underwent nonuniform deposition.

30. It is estimated that the entire deposition process took from 45 minutes to 1 hour. Further detail about the specimen preparation technique is given by Alawi (1988).

31. The vertical (z-) direction of the specimen which was the direction of raining, was aligned with the vertical or z-directions in both the MCA and

the DSC. In the DSC the vertical z-direction is also the direction of plane strain. Thus the raining procedure resulted in specimens that were transversely isotropic in the x-y plane of the DSC device. In Figs. 9 and 10 it is seen that axis-directions a and b are used. These correspond to x- and y-directions respectively. Relationships between the apparatus' a and b-coordinate system and the specimen's x and y-coordinate system will not be described in this report.

32. The LBS specimens were vacuum-confined (atmospheric outer pressure and under pressure in the air dry void space of the specimen) prior to removal from the preparation mold and insertion into the MCA and DSC devices. This initial confining level was in all experiments maintained at 20 psi (13.8 kPa). As the experiments began, externally applied normal stresses were slowly substituted for the relative vacuum-confinement.

33. Alawi (1988)) has in addition to the specimen preparation described the transfer of the specimen to the apparatuses and their insertion. He has also described how rough internal surfaces were created in the latex rubber bag surrounding the specimen, by means of gluing on a thin layer of LBS to the latex. This facilitates the transfer of shear stress through the shear pad system through the membrane bag to the sand (specimen) itself without interfacial slippage. Alawi (1988) has also described how the aluminum foil targets for the proximity probes were attached to the specimen's surfaces.

PART III: EXPERIMENTAL PROCEDURE

Introduction

34. This Part describes procedures involved with performing the experiments in the MCA and DSC devices. The discussions are kept short. Complete details are again contained in Dr. Alawi's thesis (1988).

MCA Operation Procedures

35. After inserting the specimen in the central cavity of the MCA and centering it, the remaining membranes and wall assemblies were attached to the apparatus' faces, thus effectively sealing the specimen from the exterior. Alawi 1988) has described specific assembly procedures. After tightening the connection bolts between the central reaction frame and the backup walls according to a prescribed schedule, the specimen was again adjusted to the central location by manipulating the pressures (normal stresses) in all six cavities surrounding the specimen while at the same time monitoring displacement readout (LVDTs).

36. A pre-experiment computer control code termed TCC was then exercised to assist the operator in precisely controlling the release of the internal relative vacuum applied to the specimen's pore space, in an incremental manner, while at the same time increasing the pressure applied to the specimen's surfaces through the membranes.

37. When the vacuum was fully released and the isotropic external stress applied, the TCC program was replaced by another program called LVDT, which checked all 18 LVDT recordings with respect to range and stability. While monitoring the screen display the operator adjusted the LVDTs to their mid-ranges, so that none would go out of range in either compression or extension.

38. At this stage the TCC code was again loaded and its experiment routines activated. Initial recordings of all measurement channels were then made. The stress increments and schedule for the given stress path were then

input. The operator was told throughout the experiment how much stress should be applied to the various axes at the next loading step. Applied stress and accompanying displacement were displayed during the experiments. This was also the case for the DSC experiments. The three principal stresses and three strains were stored on PC diskettes together with other important data, such as the octahedral shear strain that was used to characterize change of stress path after certain target points were reached. (Part IV; Alawi, 1988).

39. It should be briefly mentioned that after applying a given load increment, the program waited for three minutes before recording the individual channel's output. Eighteen (18) LVDTs and three (3) pressure transducers are included in the MCA device's instrumentation. In the case of the DSC where the proximity transducers had individual output facilities, the average of ten consecutive recordings were used to arrive at a precise measurement on each channel (Alawi, 1988).

DSC Operation Procedures

40. A standard procedure for inserting, loading, and testing the specimen in the DSC was also devised (Alawi, 1988). It should be mentioned that the DSC is far more sensitive to initial conditions and variations in the experimental technique than the MCA is.

41. While the specimen was still subjected to the relative vacuum, it was moved to the top surface of the lowered lifting table that was used to manipulate the specimen into position in the apparatus from below. This surface, which constituted the bottom plane strain boundary in the DSC, was carefully lubricated so that sliding and adjustments of the specimen's position could be made without disturbing it. Guide posts and alignment lines were used to position the specimen in the apparatus at the same location for each experiment. The positioning exercise is intricate in view of the

presence of two vacuum lines, electrical cables, etc.

42. The guides were also used to help center the specimen at equal distances from the four support columns that also served as load cells for assessing the out-of-plane stress (Alawi, 1988).

43. Before lifting the table to the specified height within the DSC a small amount of stretch was applied to the shear pad and shear strip system, so that the apparatus' central cavity was expanded to facilitate the insertion of the specimen. The normal stress application assemblies were also retracted at this stage for the same reason. The pivoting cups, etc. were all maintained in a fixed position during the initializing phase.

44. After centering, etc. was achieved, the normal and shear stress application assemblies were brought into contact with the specimen. Pressure, electrical, etc. connections were made at this point also. A computer program termed PROX was used to control the gradual and incremental movement of the shear and normal loading assemblies during this initial phase (Alawi, 1988). Both the LVDT (12) and proximity transducer (8) channels were monitored during this process. Alawi (1988) has also described other adjustment and pre-experiment exercises that are required before operating the DSC.

45. The top plane strain boundary-plate was then placed in position. It was lubricated in the same manner as the bottom plate. The four instrumented connection rods were then tightened by means of turning nuts in threaded sections of the rods. Displacement measurements were monitored while this process took place. Care was taken to have equal readings for all four load cells before commencing testing.

46. After all measurement transducers' readings were initialized, and it was finally ascertained that the specimen's position was correct, a small computer code HYDRO was used to schedule and control the isotropic stress loading phase. Lateral stress adjustments in the apparatus took place at the same time as the four connecting rods were further tensioned to produce an isotropic stress state.

47. It should be mentioned that another computer program - LVDTSCAN was used to check specimen as well as apparatus position versus an unstressed reference configuration to help update the apparatus' geometry in case the specimen's deformation became significant.

48. The stress (loading) history was planned before the experiment and normal and shear stress tables were prepared with reference to the initial Cartesian configuration. The entries in the stress tables were followed by the operator. An additional computer program called DSCEXP was used in those instances when both normal and shear stresses were applied or changed in a given increment to warn the operator about potential instabilities, too large strain variations, and other irregular features.

49. The response of the specimen was continuously monitored during loading as well as unloading sequences. Both normal and shear stresses were controlled with a high degree of precision. It was possible to carry out the control to an accuracy of ± 0.005 psi (± 0.0345 kPa).

50. After each load step the applied stresses and strain responses were stored. Various secondary or derived quantities such as octahedral shear strain were also included in the stress and strain tables.

52. During the experiments it was usually easy to control and assess the status of the specimen via a transparent lucite plate on the top and a slanted viewing mirror. Shear band formation and other destabilizing phenomena could be viewed from the top side.

53. Alawi (1988) has given a detailed account of the various procedures including limitations and capabilities of the DSC.

PART IV: EXPERIMENTAL PROGRAM

Introduction

54. As mentioned in the Introduction a total of 97 successful MCA and 32 DSC experiments are presented in this report. The MCA experiments involved stress paths that were completely defined in principal stress space and deviatoric principal stress space. The principal stress directions were always fixed with respect to the specimen's material coordinate system. The only loading pattern that could radically change was the order of the stresses, i.e. what was initially the major principal stress direction, could in the next instant become the minor (or intermediate) principal stress direction. In this manner radical jump rotations of principal stress directions could be controlled often in conjunction with variations of the intermediate principal stress, thus effecting rotations of compression, simple shear, and extension states (Mould, 1983; Alawi, 1988).

55. In the DSC device it is possible to also vary the principal stress directions with respect to the material coordinate system. In addition to probing the responses to induced anisotropy, dilatancy, and non-associativity, it is also possible to investigate issues related to coaxiality between plastic strain increment(s) and associated stress(es). The latter capability is perhaps the most important distinction between the MCA and DSC.

56. It should be mentioned that throughout this report the stresses are effective stresses. No primes or bars are used to indicate that they indeed are effective.

57. The following sections describe the MCA and DSC experimental programs.

MCA Experimental Program

58. As mentioned in Part III, the relative vacuum which was applied to the inside of the specimen after the preparation process was in all experiments equal to 2.0 psi (13.8 kPa). This stress state was the reference state after the vacuum was replaced by the normal stress transmitted through the membranes (Alawi, 1988).

59. The displacement measurements of the specimen were also initialized at this stage (Part III). The specimens were then isotropically loaded in an incremental manner until the specified stress level was reached. This was accomplished by subjecting the specimen to an equal all around normal stress in increments that were either 0.25 psi or 0.50 psi (1.73 or 3.45 kPa) in magnitude.

60. After the prescribed deviatoric (or octahedral) plane was reached, the specimens were subjected to pure shear or pure deviatoric loading along a straight line stress path until a given level of octahedral shear strain was reached for that particular loading segment.

61. The octahedral shear strain γ_{oct} accumulated along any linear or curved strain path between two points (1) and (2) is defined as (Alawi, 1988)

$$\gamma_{oct} = \int_{t_1}^{t_2} \dot{\gamma}_{oct} dt \quad (1)$$

$$\dot{\gamma}_{oct} = \frac{2}{3} \left[(\dot{\epsilon}_1 - \dot{\epsilon}_2)^2 + (\dot{\epsilon}_2 - \dot{\epsilon}_3)^2 + (\dot{\epsilon}_3 - \dot{\epsilon}_1)^2 \right]^{\frac{1}{2}} \quad (2)$$

The incremental form of Equations 1 and 2 can also be written as

$$\gamma_{oct} = \sum_{i=1}^3 \Delta \gamma_{oct} \quad (3)$$

$$\Delta \gamma_{oct} = \frac{2}{3} \left[\Delta \epsilon_1 - \Delta \epsilon_2 \right]^2 + \left[\Delta \epsilon_2 - \Delta \epsilon_3 \right]^2 + \left[\Delta \epsilon_3 - \Delta \epsilon_1 \right]^2 \right]^{\frac{1}{2}} \quad (4)$$

62. The various experimental categories were placed in 15 sets or groups, which were characterized according to the isotropic confining stress level, stress path, and shear strain level in the specimens during each shear loading segment.

63. Tables 1-5 present the experimental set's identification codes, test number within the set, stress path (which also characterizes the test), confining stress level (given in terms of the mean effective stress), and the accumulated octahedral shear strain within the last straight line stress path segment within the set.

64. Figure 2 shows the projections of all MCA experiments on the triaxial (Rendulic) plane. It is seen that four (4) different isotropic confining stress levels (2, 5, 8, and 10 psi; 13.8, 34.5, 55.2, and 69.5 kPa) were used as initial points for the different deviatoric loading series (Alawi, 1988). The numbers "2" and "8" that appear at the top and bottom, respectively, of the four octahedral planes are the same path-indices shown in Figs. 3 and 4.

65. Each of these series or sets are characterized by points O, A, A*, and A** in Figure 2. Figures 3 through 8 show illustrations of these projections of the different sets on the corresponding deviatoric subspace or plane during the shear loading sequence. The different experimental sets will be described in the following.

Set A

66. Eleven (11) radial experiments labelled A1 through A12, were performed in the same deviatoric plane. It will be seen that A6 is not included in the table. Each specimen was first subjected to an isotropic stress of 5.0 psi (34.5 kPa), which corresponds to point A in Figure 2, and the specimens were then subjected to pure shear until an accumulated octahedral shear strain of 1 percent was reached (i.e. $\Delta\gamma_{oct} = 1\%$) along the paths labelled 1 through 12 (Figure 3). The stress paths were then reversed back to point A. This set covers the entire 360° deviatoric plane at intervals that are spaced 30° apart, as shown in Figure 3. The purpose of these experiments was to probe the influence of initial anisotropy, that was created by the specimen deposition, on response.

Set AB

67. Eleven (11) specimens were isotropically loaded to point A in a manner similar to the previous set A, and they were then subjected to loading histories that were similar to experiment A1 above, until an octahedral shear strain level of 1% (i.e. $\Delta\gamma_{oct} = 1\%$) had been induced in the specimen, as denoted by point B in Figure 4. This simple shear loading part was achieved by maintaining σ_1 constant at 5.0 psi (34.5 kPa), while incrementally increasing σ_2 and simultaneously decreasing σ_3 by the same magnitudes. The applied shear stress increments $\Delta\sigma_1, -\Delta\sigma_1$, were maintained constant at 0.4 psi (2.8 kPa) for all experiments in this set for the sake of consistency.

68. Starting from point B, the specimens were then subjected to shear in different directions along straight line stress path segments that were located at 30° intervals until an additional 1 percent (i.e. $\Delta\gamma_{oct} = 1\%$) was accumulated. The stress paths were then reversed from the given end points labelled 1 through 12 to B, and then back to A and 0. The codes for these

experiments were thus AB1, AB2, etc. through AB12 as shown in Table 1. It is seen that experiment AB3 is not included in the Table (Alawi, 1988), since the file contained too many irregular readings.

Set ABC

69. A total of twelve (12) experiments labelled ABC1 through ABC12 were conducted in this set. The loading sequences for these tests followed exactly the same paths as those described for Set AB up to point B. At point B the specimens were subsequently subjected to a triaxial compression increment (TC) until point C was reached after an additional accumulation of $\Delta\gamma_{xy} = 1\%$, as depicted in Figure 4.

70. In this TC loading segment σ_z was increased by an amount $\Delta\sigma_z$, while σ_x and σ_y were reduced equally by $\Delta\sigma/2$ in order to keep the mean stress level (σ_m) constant at 5.0 psi (34.5 kPa). Maintaining point C as an origin the twelve (12) separate experiments were then conducted in different and equally spaced probing directions until an additional $\Delta\gamma_{xy} = 1\%$ was reached.

71. All tests were then reversed back to point C, and then back to B, A, and O as in the previous sets.

Sets ACD, ACE, ACF, ACG, and ACH

72. A total of five (5) experimental sets, each of which consisted of 5 experiments, involved loading the specimens from point A to point C, to a level of $\gamma_{xy} = 2\%$, along the simple shear stress paths described earlier and as depicted in Figures 5 through 7. The stress paths shown in the various sets were then advanced to points D, E, F, G and H with an additional accumulation of $\Delta\gamma_{xy} = 2\%$ in each experiment. Different specimens within each set were then subjected to a stress probe that was conducted in a backwards manner in directions that were symmetrically located and spaced at regular intervals about the straight line loading segments.

73. It should be noted that the backwards probing technique was designed to locate current yield loci and to study their translation behavior in the deviatoric plane. This information may be used by the reader to investigate induced anisotropy.

74. These experiments were provided with labels ACD1 through ACD5; ACE1 through ACE5; ACF1 through ACF5; ACG1 through ACG5; and, ACH1 through ACH5 (Alawi, 1988).

Set ACI

75. A total of twelve (12) experiments labelled ACI1 through ACI12 were conducted in this set. The specimens were initially loaded as previously described from A to C, as shown in Figure 7, and they were then unloaded to point I, which is located nearly halfway between points A and C. From point I, twelve (12) radial shear stress paths which were equally spaced at 30° intervals, were employed as new probing directions until octahedral shear strain increment of 2 percent ($\Delta\gamma_{oct} = 2\%$) were attained along each path.

74. The specimens were then unloaded back to point I and further back to A and O. This experimental set was designed to investigate, if the same yield loci, that were produced by the stress paths in the previous five (5) sets, would be reached by loading specimens from point I (Alawi, 1988).

77. It should be noted that earlier experiments such as ACD through ACH, had shown that essentially elastic strain responses were observed during the unloading segment from C to I.

Set A*CI

78. A total of (12) experiments labelled A*CI1.1C through A*CI12.1C were conducted in this set. It should be mentioned that the added index; .1C that is used in the database does not add further information other than "C" denotes MCA. Later it will be seen that a similar index .1D denotes DSC

experiment. In front of the C (or D) the number may be 1, 2, or 3. This number characterizes the test replication in the particular category.

79. In this experimental set the mean stress level (σ) was increased to 10.0 psi (69.0 kPa), but the loading paths for these tests were similar to those conducted in Set ACI up to point I, except for the fact that the mean stress was higher (10.0 psi; 69.0 kPa). The loading segments from point I were advanced until the specimens were severely deformed at the ultimate strength limit which happened approximately at $\gamma_{ult} = 15\%$.

80. The paths are shown in Figure 8. The unloading parts in these experiments were excluded, since the specimens usually experienced very large deformations and severe localization of deformation in narrow shear bands. For these reasons the unloading parts were excluded, since this information might be deceptive and convey the wrong message to the reader.

Set A*C

81. A total of five (5) experiments labelled A*CD.1C, A*CE.1C, A*CF.1C, A*CG.1C, and A*CH.1C, were carried out in this set. The five (5) specimens were loaded to point C in simple shear (SS) to $\Delta\gamma_{ss} = 2\%$ accumulation at a mean stress level of 10.0 psi (69.0 kPa) corresponding to point A* in Figure 2.

Set A*, Hydrostatic, O, A.1C, A**.1C

82. Miscellaneous experiments were conducted to investigate particular features of response. Two (2) experiments were conducted in the A* category, and these are labelled A*2.1C and A*8.1C. They were also conducted at 10.0 psi (69.0 kPa) mean stress and to a final octahedral shear strain increment of 10%.

83. One (1) hydrostatic or isotropic compression experiment labelled HC1C was also conducted. The measurement range was in this case between 2.0 and 25.0 psi (13.8 - 172.5 kPa).

84. The set termed 0 consisted of two (2) experiments labelled 02 and 08. These experiments were conducted at a very low mean stress level (2.0 psi; 13.8 kPa). The octahedral shear strain level reached in these experiments was in excess of 10%.

85. Set A.1C consisted of two (2) experiments also, and they were termed A2.1C and A8.1C. These tests were conducted at a mean stress level of 5.0 psi (34.5 kPa) to an octahedral shear strain in excess of 10%.

86. Set A**1C also consisted of two (2) experiments labelled A**2.1C and A**8.1C. These experiments were conducted at a mean stress level of 8.0 psi (55.2 kPa), and also to an octahedral shear strain level larger than 10% (Alawi, 1988).

DSC Experimental Program

87. The DSC specimens were initially subjected to identical stress histories, and they were subsequently subjected to various combinations of normal and shear stresses. In addition to investigating properties and behavior observed in the MCA the DSC experiments were performed to assess coaxiality of plastic strain increments and stresses as well as stress-strain responses during the course of continuously or discretely rotating principal stress directions.

88. As previously discussed, the in-plane normal and shear stresses were applied in a step-wise manner, while the out-of-plane (vertical) stress was measured as an outcome of the in-plane loading.

89. The DSC specimens were also initially subjected to 2.0 psi (13.8 kPa) initial vacuum confinement, that was carefully replaced by the externally applied equal all around isotropic stress (Alawi, 1988). This loading phase was conducted by adjusting both the horizontal normal stresses and the load transmitted through the top and bottom lubricated end plates (Alawi, 1988).

90. This isotropic loading scheme was continued at 1.0 psi (6.9 kPa) increments until 5.0 psi, etc. (34.5 kPa, etc.) levels(s) were reached as

denoted by point A in Figures 9 and 10 and Table 6. Displacement measurements were also initiated at this stage. The specimens were then subjected to shear loading under plane strain conditions to point B by increasing σ_1 and decreasing σ_3 by the same amount. In this case it is noted that $\sigma_1 = \sigma_3$ and $\sigma_2 = \sigma_2$. Point B was chosen so that the octahedral shear strain (γ_{oct}) accumulated from A to B was approximately equal to 1%.

91. Since the position of B was the result of reaching a specified value of γ_{oct} , the stress state at B varied by a small amount from experiment to experiment due to small heterogeneities and variations in deformability in each specimen. Subsequent deviatoric loading paths and stress probes which involved rotation of principal stress directions were then performed. During the entire shear loading sequence the in-plane mean stress level was maintained nearly constant 5.0 psi (34.5 kPa) by varying σ_1 and σ_3 in such a manner that $1/2(\sigma_1 + \sigma_3)$ remained constant. However, it should be noted that the out-of-plane stress was observed to vary significantly from its initial value due to dilatancy and the kinematic constraint in the vertical direction.

92. The DSC experiments were grouped in five (5) categories or sets, as listed in Table 6. Figures 9 and 10 illustrate the loading paths that were followed (Alawi, 1988).

Set AB

93. A total of nine (9) experiments were conducted in this set, which were labelled AB1.1D through AB9.3D. It will be seen that test AB5.1D is not included and the numbers 2 and 3 in AB9.2D and AB9.3D denote 2nd and 3rd replications of that experiment. It is also seen that AB9.1D is not included either. The reason for excluding these experiments was that too many irregular readings were contained in the data file. "D" denotes DSC experiment as explained earlier.

94. The specimens in this experimental series were loaded to point B as stated above, under a combination of normal stresses only to the stage where

the octahedral shear strain (γ_{oct}) was nearly equal to 1%. The nine (9) experiments were then subjected to straight line loading paths with combinations of both normal and shear stress in different directions until an additional $\Delta\gamma_{oct} = 1\%$ was attained, as shown in Figure 9.

95. The different stress paths labelled AB1 through AB9 were spaced at 29.5° regular intervals. After achieving the given level, the stress paths were reversed to points B and A, and then finally to O.

Set ABC

96. A total of sixteen (16) experiments were conducted in this set. They are labelled ABC1.1D through ABC11.1D. In Table 6 it will be seen that several replications are included in the set. The specimens in this series were initially loaded to point B in the same manner as Set AB. At point B only pure shear in terms of $\tau_{xx} = 1\%$ was induced at point C. Radial stress probes were then conducted from point C in the τ_{xx} vs. $(\sigma_x - \sigma_y)/2$ stress subspace at intervals of 22.5° apart. These stress paths were reversed after reaching the given end points where additional $\Delta\gamma_{oct} = 1\%$ were induced.

Sets ABCD and ABCE

97. These two (2) sets comprised of only three (3) experiments each, which were designed to investigate whether or not the same yield loci obtained in the experimental set described above (ABC) could be reached by probing from different points such as D and E as shown in Figure 10 (Alawi, 1988). Almost a completely elastic response was observed during the in-plane simple shear loading that was continued from point C to points D and E.

98. The $\Delta\gamma_{oct}$ increments that were measured along the different paths for the two sets were larger than 5% (Alawi, 1988).

Sets ACBA

99. Set ACBA consisted of only one experiment that followed the closed loop A-C-B-A.

Set CIR

100. This experimental set consisted of only three (3) experiments, which involved in-plane continuous rotations of the principal stress directions at constant principal stress magnitude(s). The specimens were loaded in simple shear without applying shear stresses until γ_{oc} values of 0.1, 0.5, and 1.0% were induced (Alawi, 1988). Continuous rotations of the principal stress directions followed thereafter as shown in Figure 10.

101. These experiments were conducted to investigate strain response due to loading where all three stress invariants remained constant. These experiments were labelled CIR1.1D, CIR2.1D, and CIR3.1D. No replications were conducted.

Table 1

Summary of MCA Experiments: Sets A and AB

Set	Test Number	Stress Path	Confinement Stress (psi)	Del. Gamma Octahedral
A	1	A1	5.0	1 %
	2	A2	5.0	1 %
	3	A3	5.0	1 %
	4	A4	5.0	1 %
	5	A5	5.0	1 %
	6	A7	5.0	1 %
	7	A8	5.0	1 %
	8	A9	5.0	1 %
	9	A10	5.0	1 %
	10	A11	5.0	1 %
	11	A12	5.0	1 %
AB	1	AB1	5.0	1 %
	2	AB2	5.0	1 %
	3	AB4	5.0	1 %
	4	AB5	5.0	1 %
	5	AB6	5.0	1 %
	6	AB7	5.0	1 %
	7	AB8	5.0	1 %
	8	AB9	5.0	1 %
	9	AB10	5.0	1 %
	10	AB11	5.0	1 %
	11	AB12	5.0	1 %

Table 2

Summary of MCA Experiments: Sets ABC and ACI

Set	Test Number	Stress Path	Confinement Stress (psi)	Del. Gamma Octohedral
ABC	1	ABC1	5.0	1 %
	2	ABC2	5.0	1 %
	3	ABC3	5.0	1 %
	4	ABC4	5.0	1 %
	5	ABC5	5.0	1 %
	6	ABC6	5.0	1 %
	7	ABC7	5.0	1 %
	8	ABC8	5.0	1 %
	9	ABC9	5.0	1 %
	10	ABC10	5.0	1 %
	11	ABC11	5.0	1 %
	12	ABC12	5.0	1 %
ACI	1	ACI1	5.0	2 %
	2	ACI2	5.0	2 %
	3	ACI3	5.0	2 %
	4	ACI4	5.0	2 %
	5	ACI5	5.0	2 %
	6	ACI6	5.0	2 %
	7	ACI7	5.0	2 %
	8	ACI8	5.0	2 %
	9	ACI9	5.0	2 %
	10	ACI10	5.0	2 %
	11	ACI11	5.0	2 %
	12	ACI12	5.0	2 %

Table 3

Summary of MCA Experiments: Sets ACD, ACE, ACF, ACG, and ACH

Set	Test Number	Stress Path	Confinement Stress (psi)	Del. Gamma Octahedral
ACD	1	ACD1	5.0	2 %
	2	ACD2	5.0	2 %
	3	ACD3	5.0	2 %
	4	ACD4	5.0	2 %
	5	ACD5	5.0	2 %
ACE	1	ACE1	5.0	2 %
	2	ACE2	5.0	2 %
	3	ACE3	5.0	2 %
	4	ACE4	5.0	2 %
	5	ACE5	5.0	2 %
ACF	1	ACF1	5.0	2 %
	2	ACF2	5.0	2 %
	3	ACF3	5.0	2 %
	4	ACF4	5.0	2 %
	5	ACF5	5.0	2 %
ACG	1	ACG1	5.0	2 %
	3	ACG3	5.0	2 %
	4	ACG4	5.0	2 %
	5	ACG5	5.0	2 %
ACH	1	ACH1	5.0	2 %
	2	ACH2	5.0	2 %
	3	ACH3	5.0	2 %
	4	ACH4	5.0	2 %
	5	ACH5	5.0	2 %

Table 4

Summary of MCA Experiments: Sets A*CI, A*C, A*, and Hydrostatic

Set	Test Number	Stress Path	Confinement Stress (psi)	Del. Gamma Octohedral
A*CI	1	A*CI1.1C	10.0	> 10 %
	2	A*CI2.1C	10.0	> 10 %
	3	A*CI3.1C	10.0	> 10 %
	4	A*CI4.1C	10.0	> 10 %
	5	A*CI5.1C	10.0	> 10 %
	6	A*CI6.1C	10.0	> 10 %
	7	A*CI7.1C	10.0	> 10 %
	8	A*CI8.1C	10.0	> 10 %
	9	A*CI9.1C	10.0	> 10 %
	10	A*CI10.1C	10.0	> 10 %
	11	A*CI11.1C	10.0	> 10 %
	12	A*CI12.1C	10.0	> 10 %
A*C	1	A*CD.1C	10.0	> 10 %
	2	A*CE.1C	10.0	> 10 %
	3	A*CF.1C	10.0	> 10 %
	4	A*CG.1C	10.0	> 10 %
	5	A*CH.1C	10.0	> 10 %
A*	1	A*2.1C	10.0	> 10 %
	2	A*8.1C	10.0	> 10 %
Hydrostatic	1	HC.1C	2.0-25.0	

Table 5

Summary of MCA Experiments: Sets O, A.1C, A^{**}.1C

Set	Test Number	Stress Path	Confiment Stress (psi)	Del. Gamma Octohedral
O	1	O2	2.0	> 10 %
	2	O8	2.0	> 10 %
A.1C	1	A2.1C	5.0	> 10 %
	2	A8.1C	5.0	> 10 %
A ^{**} .1C	1	A ^{**} 2.1C	8.0	> 10 %
	2	A ^{**} 8.1C	8.0	> 10 %
Total of (97) tests on the Cubical Triaxial Apparatus.				

Table 6

Summary of DSC Experiments: Sets AB and ABC

Set	Test Number	Stress Path	Confinement Stress (psi)	Del. Gamma Octahedral
AB	1	AB1.1D	5.0	1 %
	2	AB2.1D	5.0	1 %
	3	AB3.1D	5.0	1 %
	4	AB4.1D	5.0	1 %
	5	AB6.1D	5.0	1 %
	6	AB7.1D	5.0	1 %
	7	AB8.1D	5.0	1 %
	8	AB9.2D	5.0	1 %
	9	AB9.3D	5.0	1 %
ABC	1	ABC1.1D	5.0	1 %
	2	ABC1.2D	5.0	> 5 %
	3	ABC2.1D	5.0	1 %
	4	ABC3.1D	5.0	1 %
	5	ABC4.1D	5.0	1 %
	6	ABC5.1D	5.0	1 %
	7	ABC6.1D	5.0	1 %
	8	ABC7.1D	5.0	1 %
	9	ABC8.1D	5.0	1 %
	10	ABC8.2D	5.0	1 %
	11	ABC9.1D	5.0	1 %
	12	ABC9.2D	5.0	1 %
	13	ABC9.3D	5.0	> 5 %
	14	ABC10.1D	5.0	1 %
	15	ABC10.2D	5.0	1 %
	16	ABC11.1D	5.0	1 %

Table 7

Summary of DSC Experiments: Sets ABCD, ABCE, ACBA, and CIR

Set	Test Number	Stress Path	Confinement Stress (psi)	Del. Gamma Octahedral
ABCD	1	ABCD.1D	5.0	> 5 %
ABCE	1	ABCE.1D	5.0	> 5 %
	2	ABCE2.1D	5.0	> 5 %
ACBA	1	ACBA.1D	5.0	
CIR	1	CIR1.1D	5.0	
	2	CIR2.1D	5.0	
	3	CIR3.1D	5.0	

Total of (32) tests on the Directional Shear Cell.

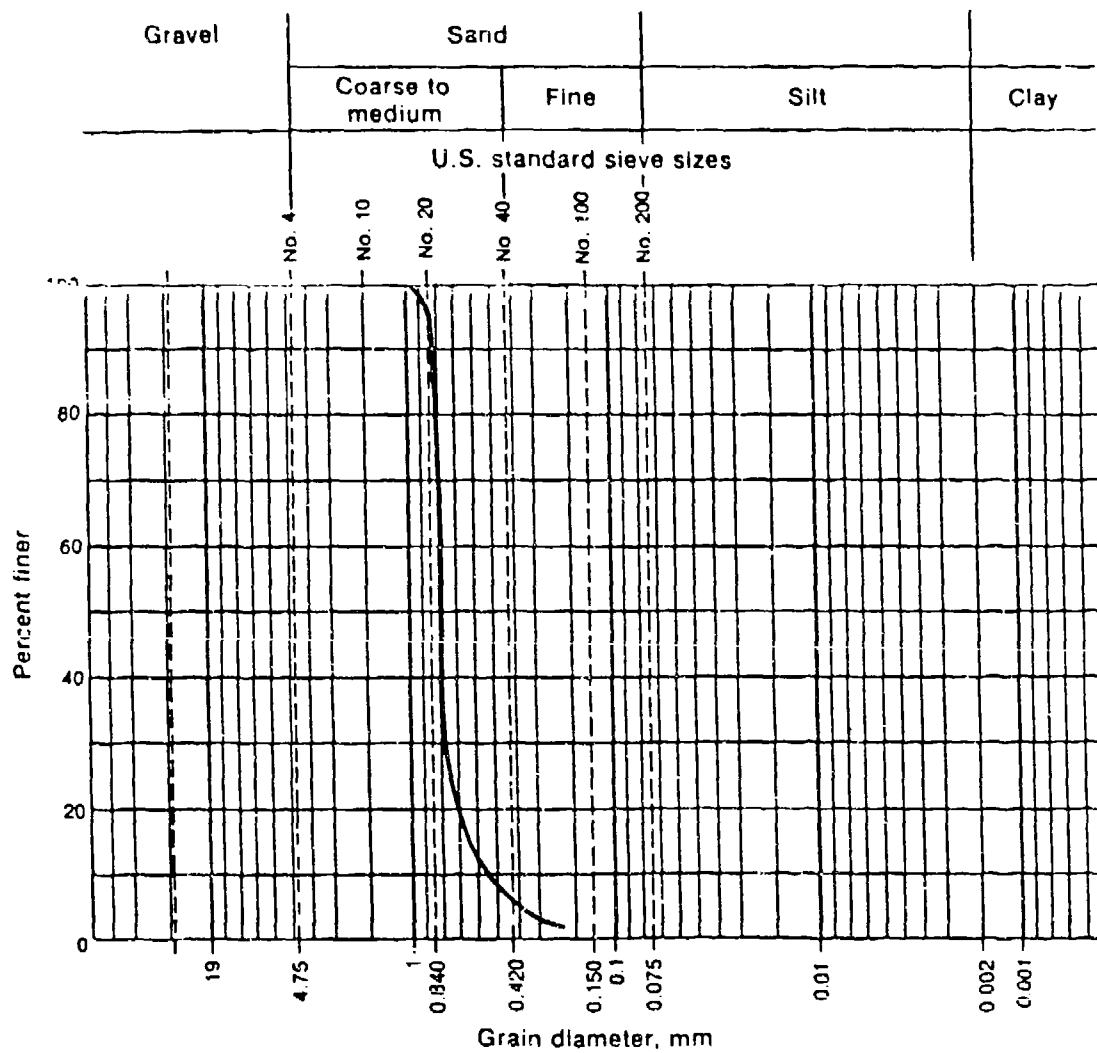


Figure 1. Grain size distribution for Leighton Buzzard (Silver) sand (LBS)
(Mould, 1983; Alawi, 1988)

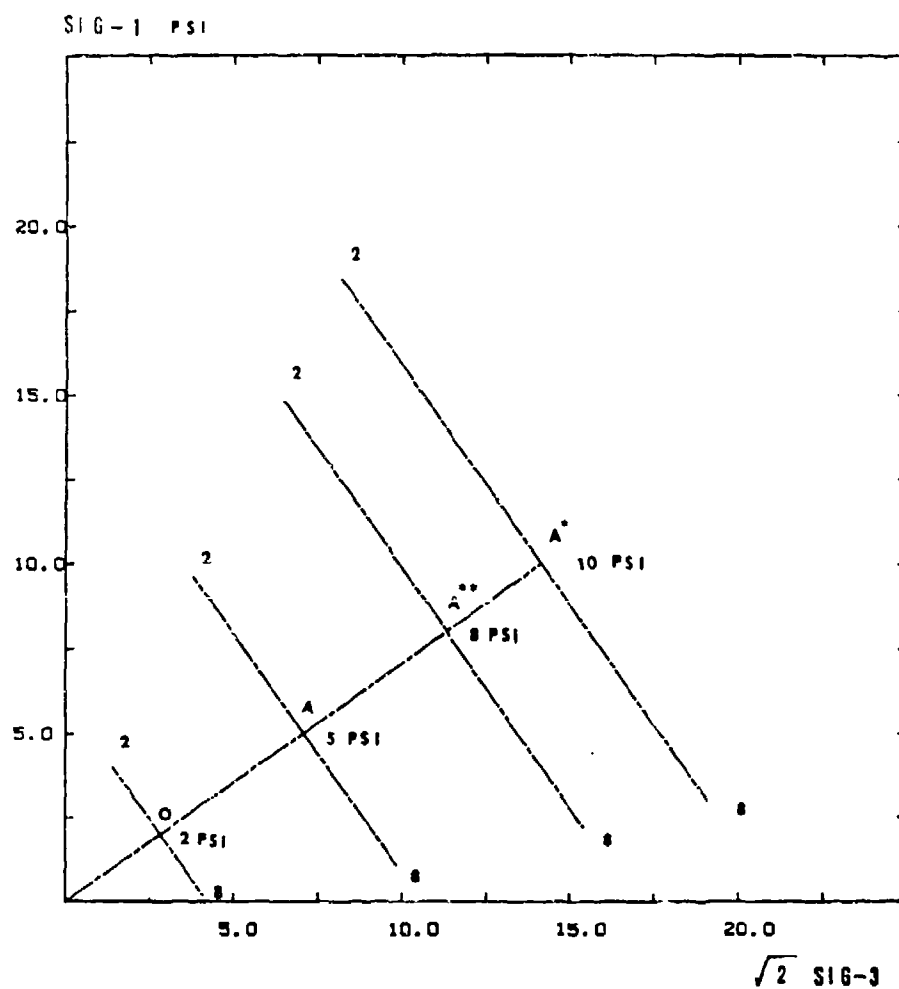


Figure 2. Projection of all MCA experiments on the triaxial (Rendulic) plane

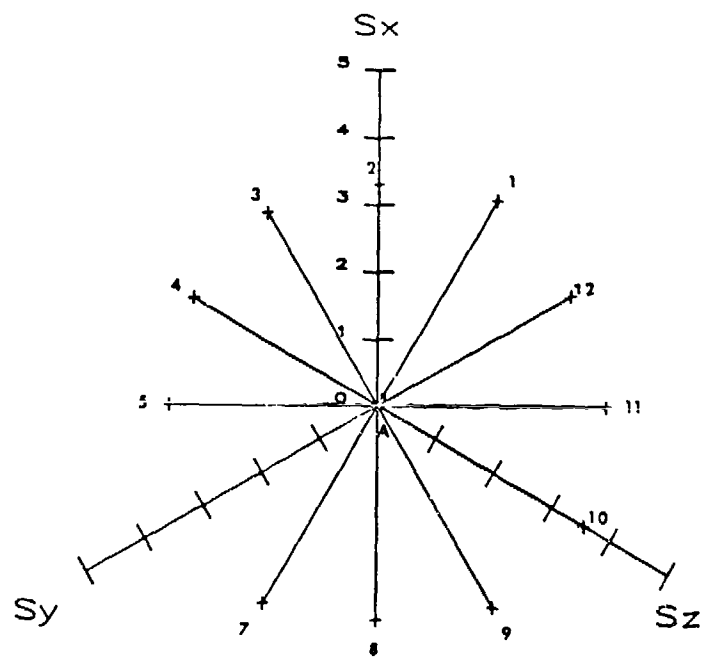


Figure 3. Projection of Set A (MCA) experiments on the deviatoric plane

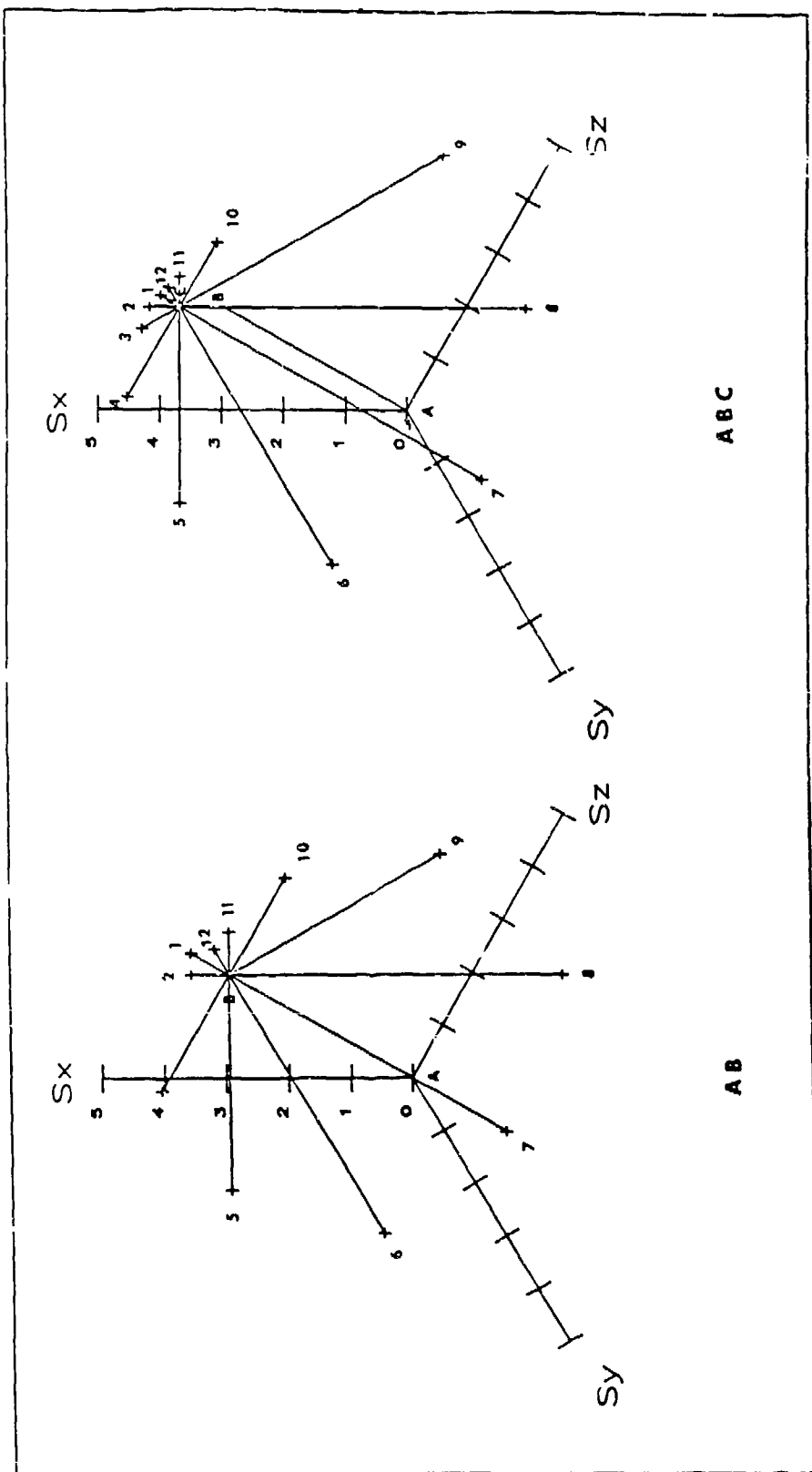


Figure 4. Projection of Sets AB and ABC (MCA) on the deviatoric plane

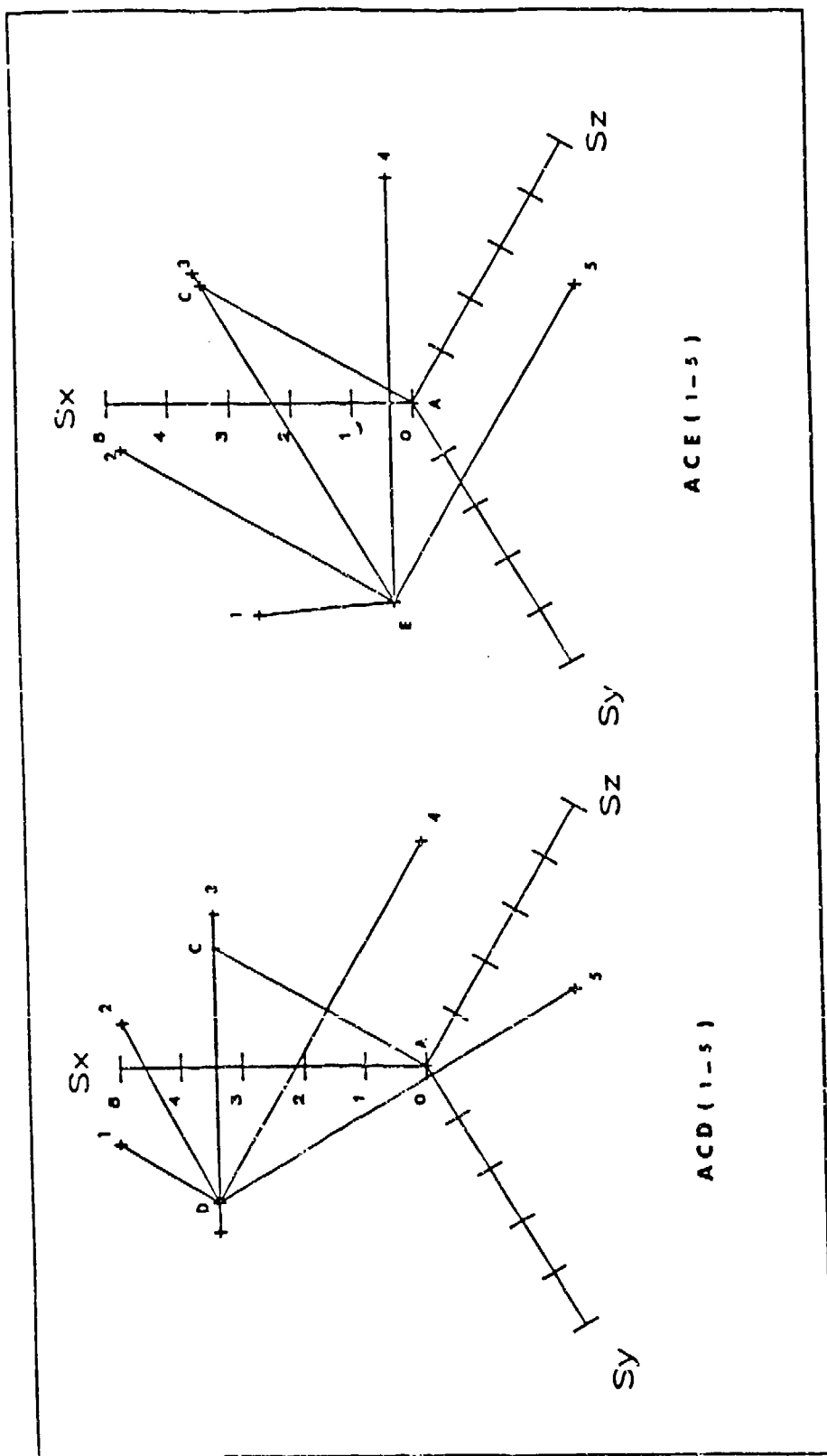


Figure 5. Projection of Sets ACD and ACE (MCA) on the deviatoric plane

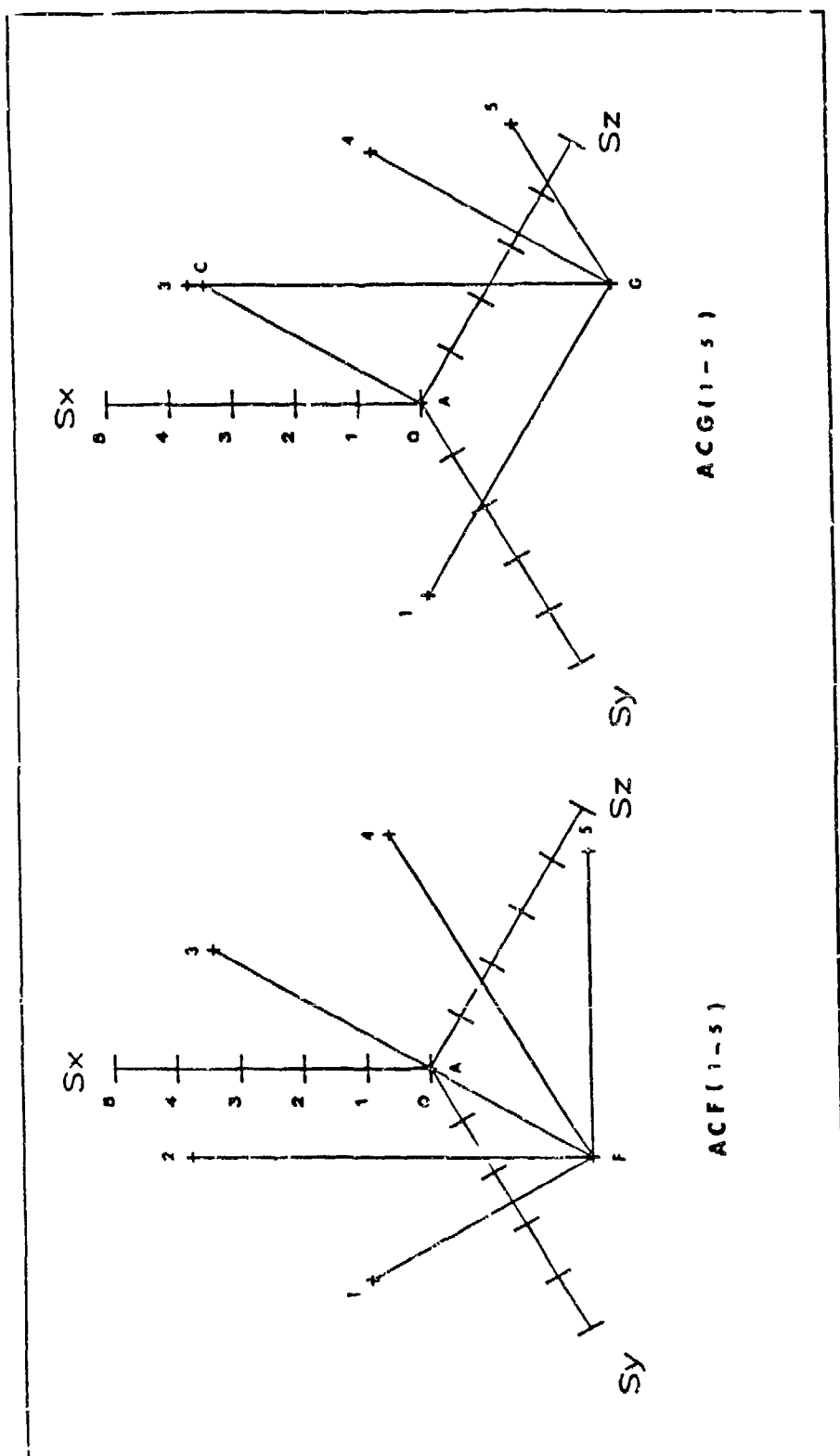


Figure 6. Projection of Sets ACF and ACG (MCA) on the deviatoric plane

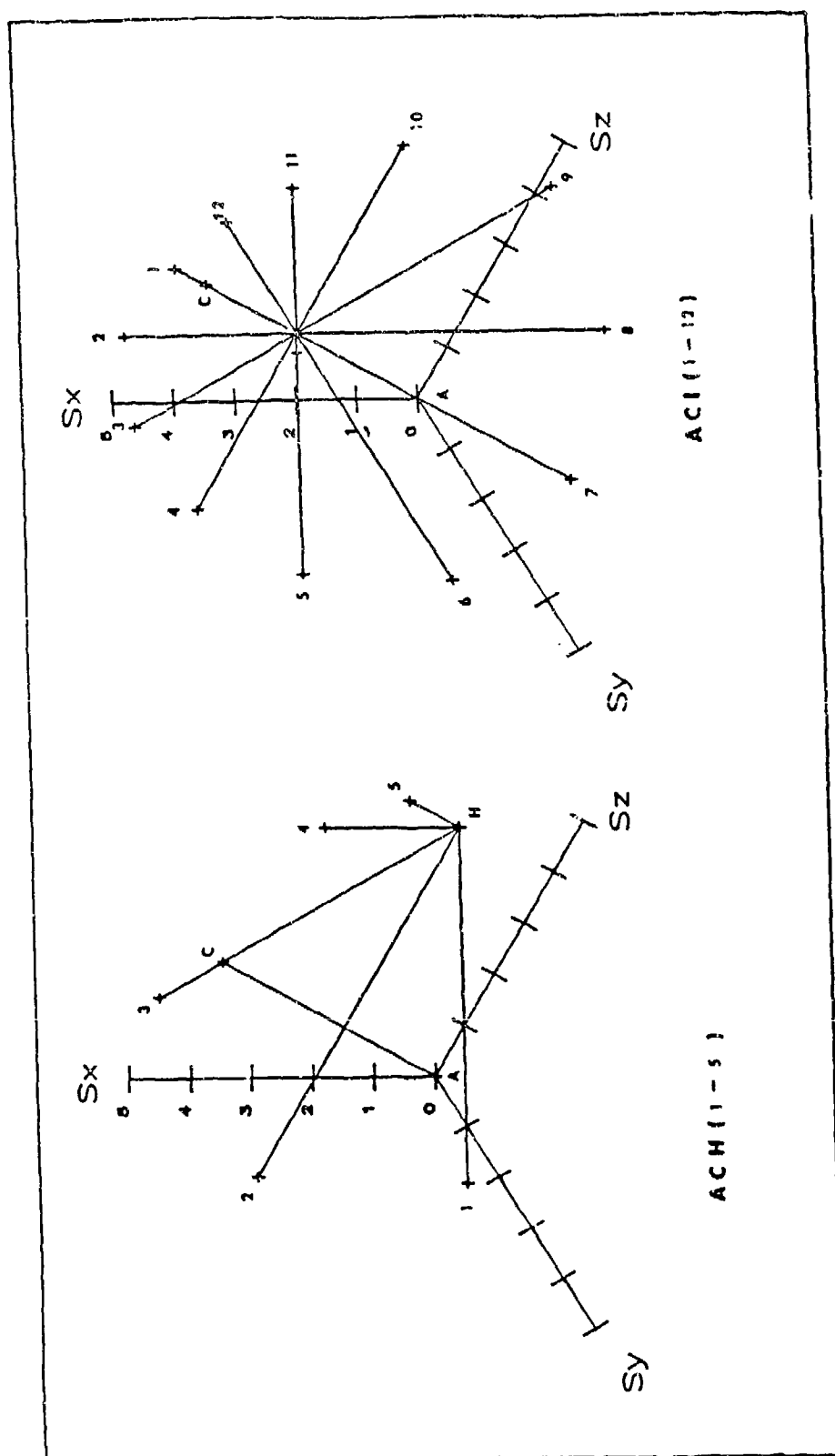


Figure 7. Projection of Sets ACH and ACI (MCA) on the deviatoric plane

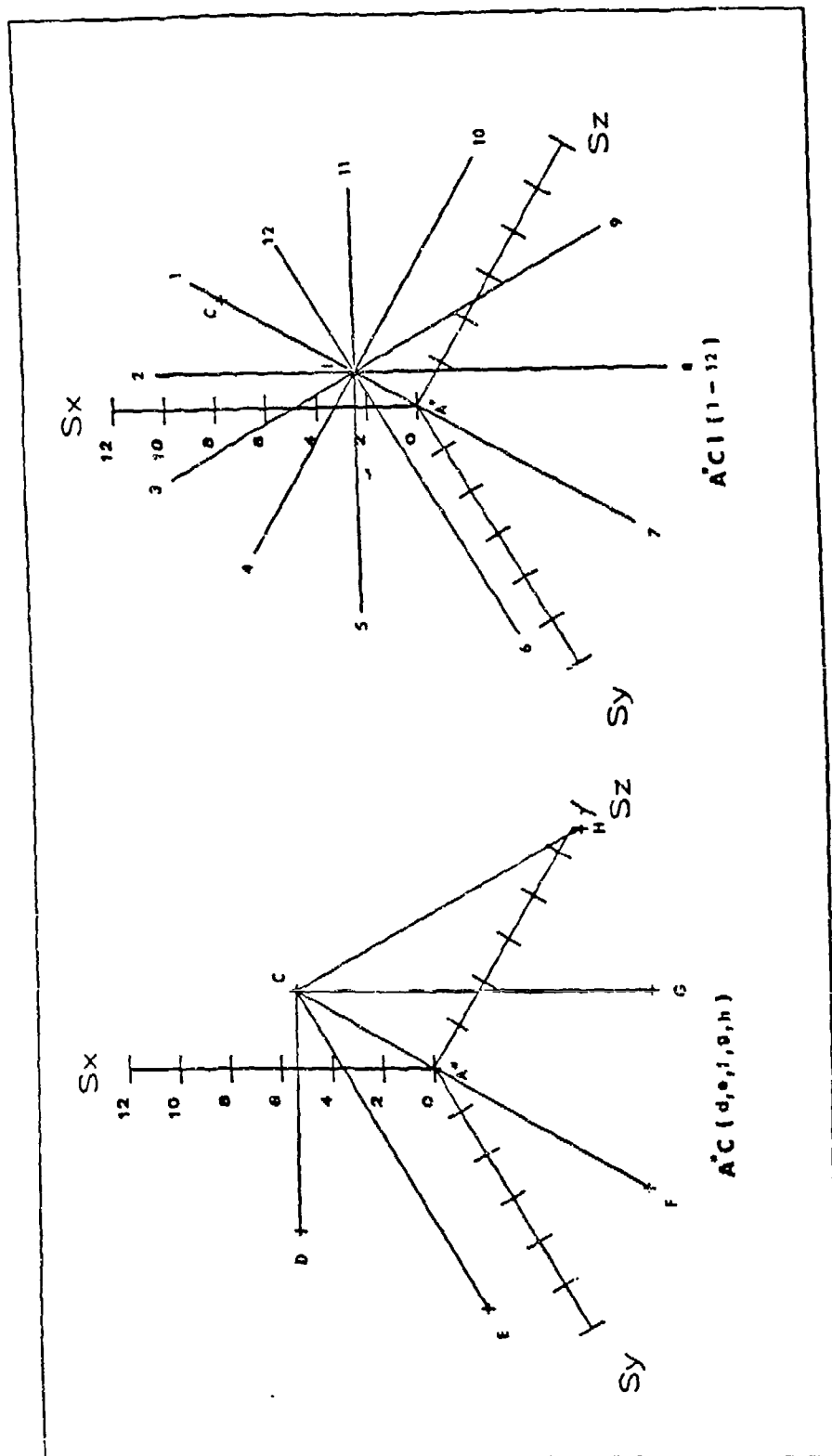


Figure 8. Projection of Sets $A^* C$ and $A^* CI$ (MCA) on the deviatoric plane

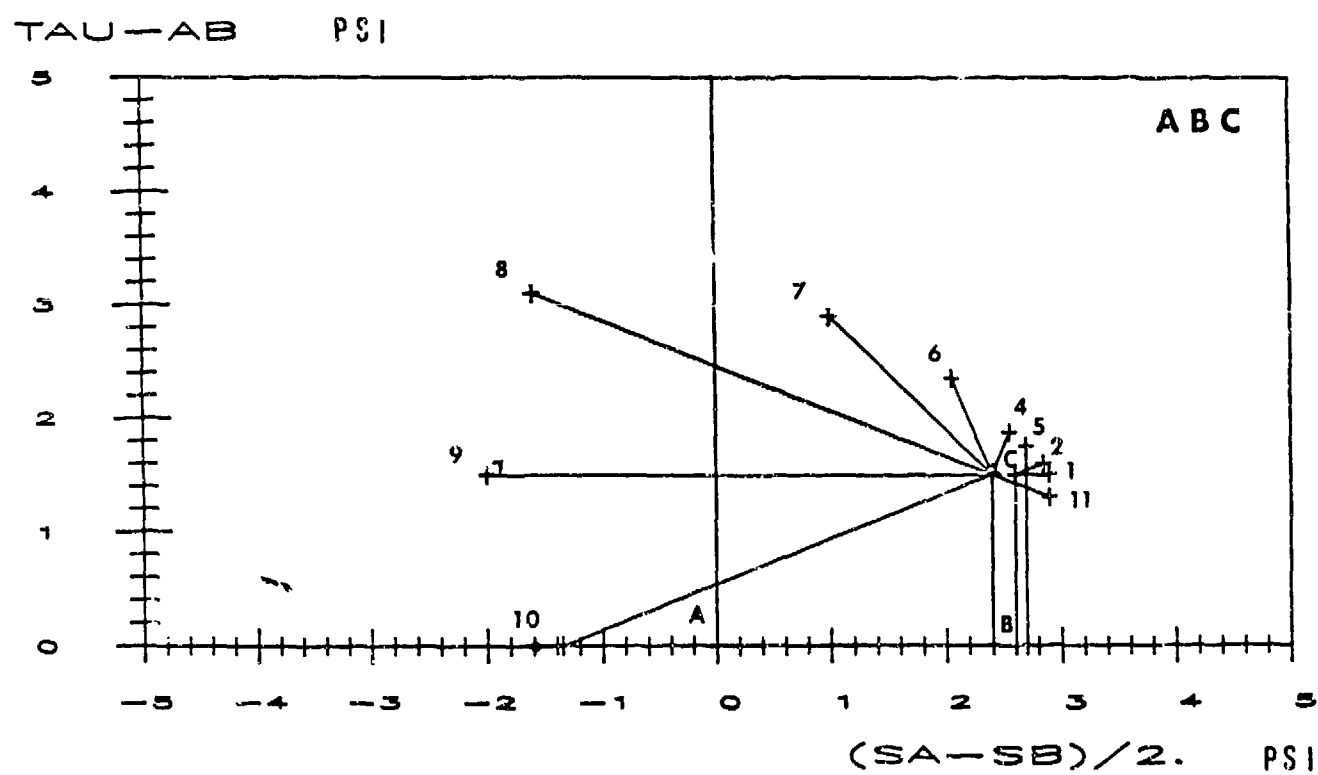
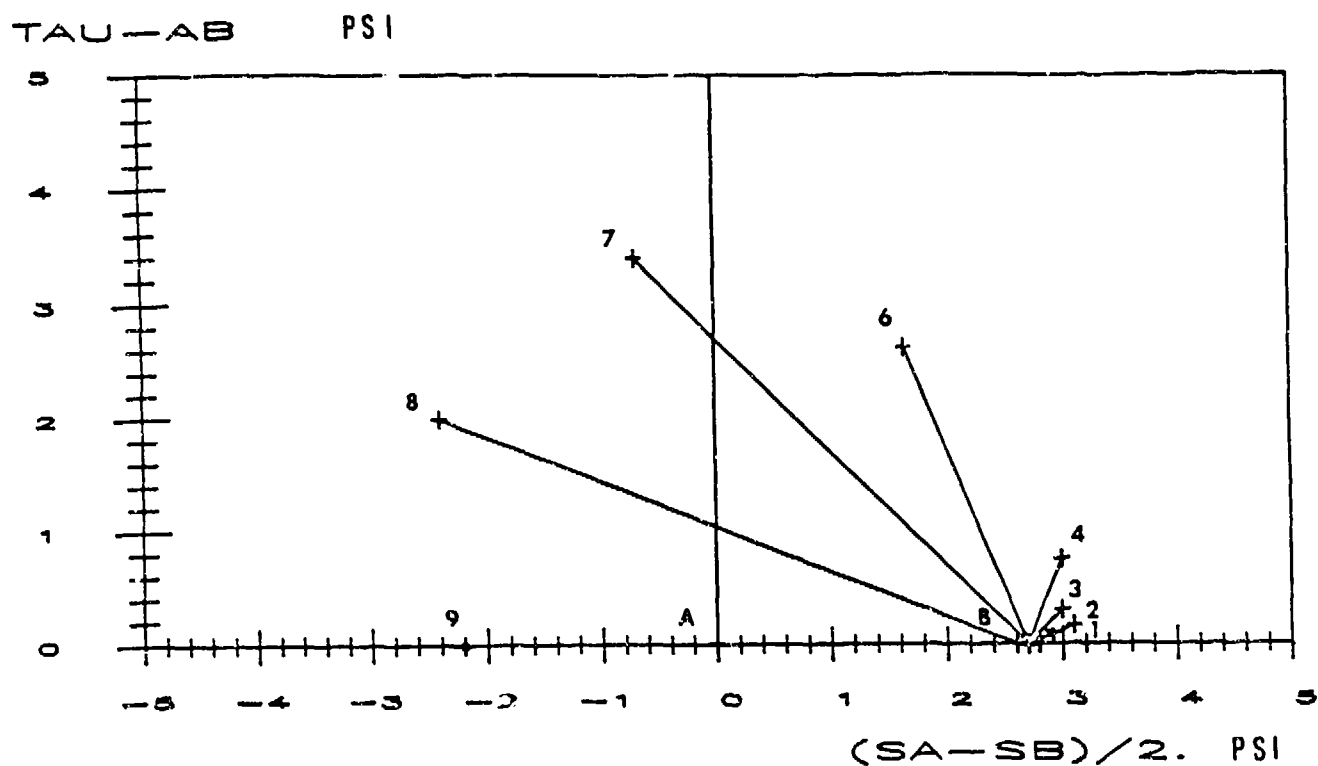
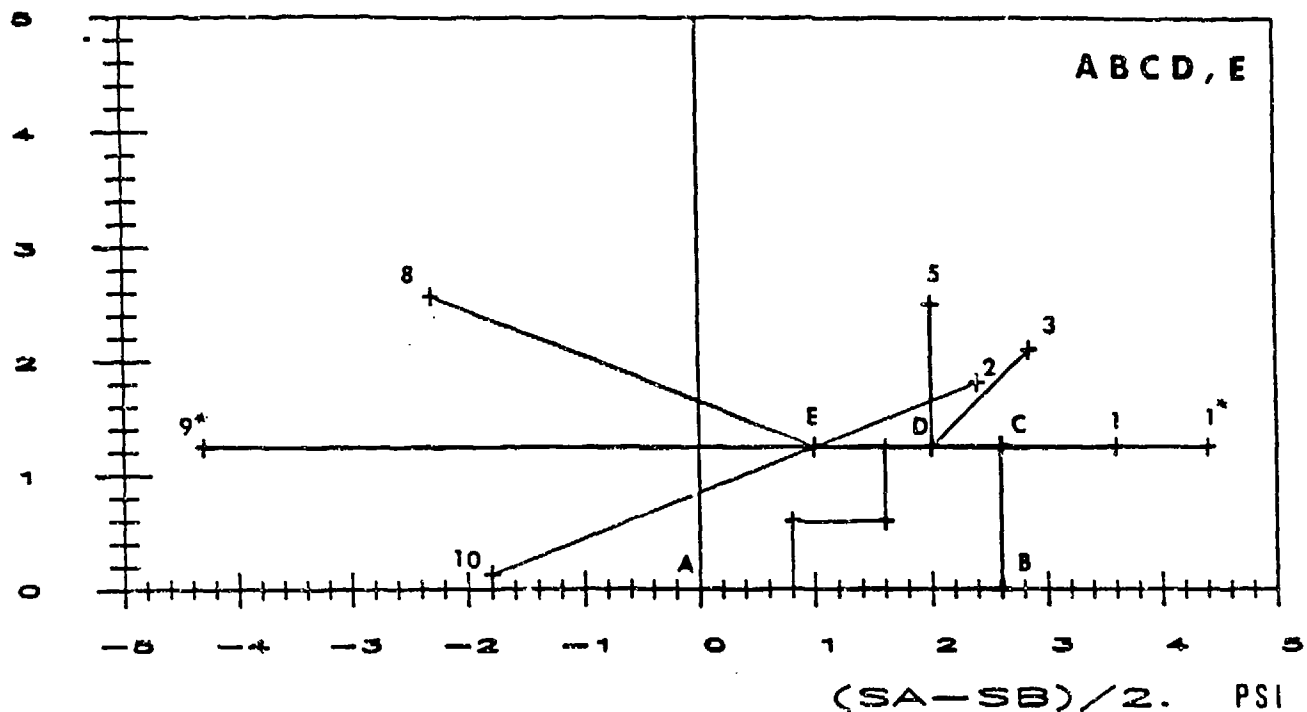


Figure 9. Projection of Sets AB and ABC (DSC) on τ_{ab} vs. $(\sigma_a - \sigma_b)/2$ plane

TAU-AB PSI



TAU-AB PSI

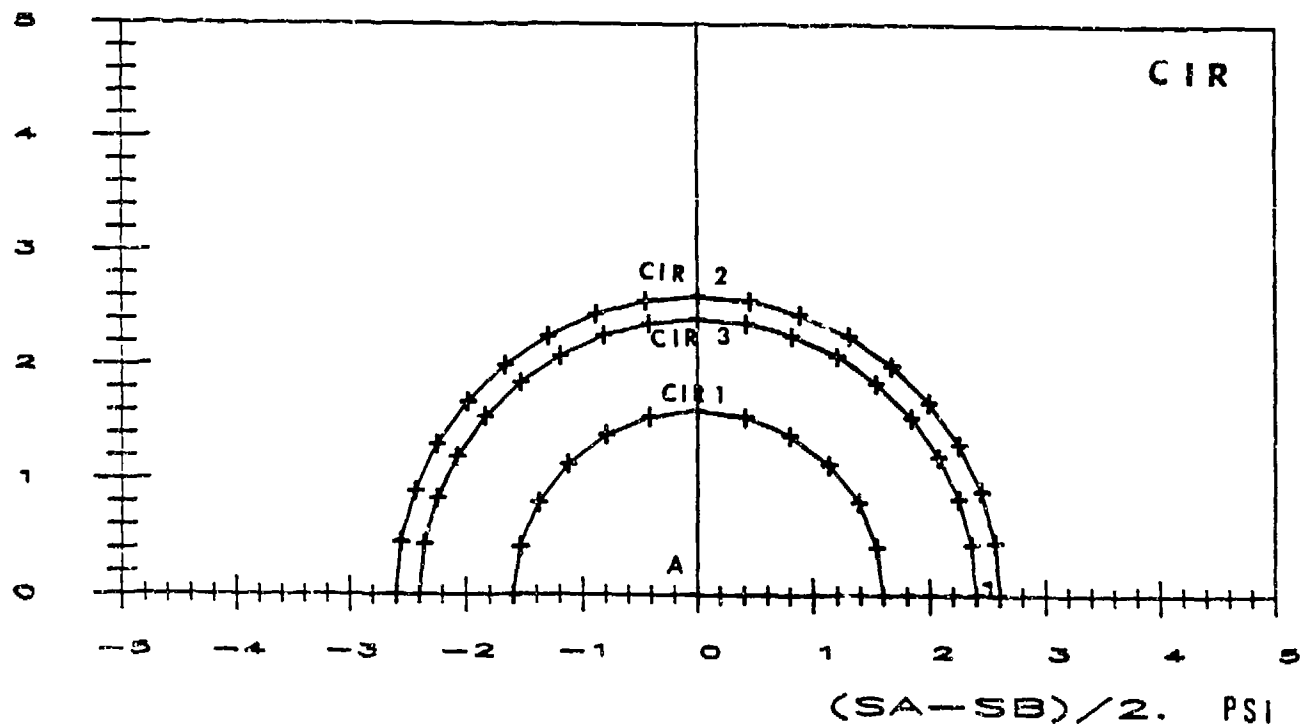


Figure 10. Projection of Sets ABCD,E and CIR (DSC) on τ_{ab} vs. $(\sigma_a - \sigma_b)/2$ plane

PART V: EXPERIMENTAL RESULTS

Introduction

102. The experimental results are in this report presented in the form of stress and strain tables. As mentioned in the Introduction (Part I), the same information is also available on PC/DOS 360 kB or 1.2 MB diskettes.

103. The stress and strain tables are contained in Appendix A. Each table pertains to a certain experiment, and it is provided with a concise descriptive title that conforms to the experiment definitions described in Part IV. This title is essentially the test code, label, or file name.

104. The heading box for each experiment also contains useful information such as number of stress and strain points in the file, apparatus category (MCA or DSC), experiment category, specimen size, initial stress state (in psi.), and initial relative density (%) of the LBS.

105. The tables are not provided with separate Table numbers except for the file, label, or code name described above. The various tables also contain in (in the left hand column) about where the key points (A, B, C, I, etc.) are reached.

106. The stress and strain tables for the MCA and DSC experiments are described in further detail in the following sections.

MCA Stress and Strain Tables

107. The stresses (SIG.X = σ_x , SIG.Y = σ_y , SIG.Z = σ_z) are presented in psi units, and the strains (EPS.X = ϵ_x , EPS.Y = ϵ_y , EPS.Z = ϵ_z) are given in terms of percent (%) for all the 97 MCA experiments.

108. G-OCT.UPDAT (%) is the incrementally accumulated octahedral shear strain ($\Delta\gamma_{oct}$ or γ_{oct}) variable that was defined in Equations 1 through 4. It starts at zero and is reset to zero at each key point (A, 2, B, C, etc.).

109. In the stress and strain tables the reader will see that a broken

line follows each key point, and that γ_{oct} is set to zero each time a broken line appears, which signals the start of the subsequent straight line stress path segment.

110. The MCA results appear first in Appendix A, and they are followed by the DSC results.

DSC Stress and Strain Tables

111. The stresses (SIG.A = σ_x , SIG.B = σ_y , SIG.Z = σ_z , and TAU.AB = τ_{xy}) are presented in psi units, and the strains (EPS.A = ϵ_x , EPS.B = ϵ_y , GAM.AB = γ_{xy}) are given in terms of percent (%) for the 32 DSC experiments.

112. G-OCT.UPDAT. (%) is also in this case defined as the incrementally accumulated octahedral shear strain ($\Delta\gamma_{oct}$ or γ_{oct}) variable that was defined in Equations 1 through 4.

113. Also in this case the reader will see that the octahedral shear strain is set to zero at the beginning of each straight line stress path segment. In most instances it is also seen that the stresses and strains are recorded twice in the tables, i.e. at the end of a stress path segment, and at the beginning of the subsequent segment. It is seen that the octahedral shear strain only appears in the former category.

Typical PC/DOS Diskette Data File

114. Figure 11 shows a typical arrangement of experiments files: Name on diskette and file/experiment name in the present list. This Figure shows only some of the MCA results. This particular format was adopted in 1987. It is anticipated that the codes and formats of the database may change in the future.

The following Cubical Triaxial data files have been stored on the diskette under different names as,

Name on diskette		Name on the attached list	
A10CI1	1C	A*CI1	1C
A10CI2	1C	A*CI2	1C
A10CI3	1C	A*CI3	1C
A10CI4	1C	A*CI4	1C
A10CI5	1C	A*CI5	1C
A10CI6	1C	A*CI6	1C
A10CI7	1C	A*CI7	1C
A10CI8	1C	A*CI8	1C
A10CI9	1C	A*CI9	1C
A10CI10	1C	A*CI10	1C
A10CI11	1C	A*CI11	1C
A10CI12	1C	A*CI12	1C
A10CD	1C	A*CD	1C
A10CE	1C	A*CE	1C
A10CF	1C	A*CF	1C
A10CG	1C	A*CG	1C
A10CH	1C	A*CH	1C
A22	1C	O2	1C
A28	1C	O8	1C
A52	1C	A2	1C
A58	1C	A8	1C
A82	1C	A**2	1C
A88	1C	A**8	1C
A102	1C	A*2	1C
A108	1C	A*8	1C

Figure 11. Typical arrangement of MCA data files on PC/DOS diskettes

PART VI: CONCLUSIONS

115. The purpose of this investigation was to create a stress-strain databank for sand subjected to proportional and highly nonproportional loading in terms of sequentially straight line stress paths with distinct breaks or discontinuities between the straight segments. The stress-strain information that is contained in this report should be well suited for tuning, calibrating, and validating constitutive models, or as source data for fundamental investigations of yield behavior.

116. Many of the results have already been used for assessing constitutive models, and it appears that the data have a high degree of inner consistency, which is needed when testing analytical models.

117. The data also appear to be well suited for investigating fundamental behavior of sand subjected to unconventional forms of loading, such as continuous rotations of the principal stress directions, while these stresses remain constant or vary in magnitude. It may seem surprising that the dilatancy characteristics are very sensitive to such stress rotations.

118. These experiments were carried out by Dr. M.M. Alawi as part of his Ph.D. dissertation work at the University of Colorado at Boulder.

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6. Sture, S. and Desai, C.S., "Fluid cushion truly triaxial or multiaxial testing device, " ASTM Geotechnical Testing Journal, Vol. 2, No. 1, March 1979, pp. 20-33.
7. Sture, S., Budiman, J.S., Ontuna, K.A., and Ko, H.-Y., "Directional shear cell experiments on a dry cohesionless soil," ASTM Geotechnical Testing Journal, Vol. 10, No. 2, June 1987, pp. 71-79.
8. Sture, S., Ko, H.-Y., Budiman, J.S., and Ontuna, K.A., "Development and application of a directional shear cell," Proceedings of the XIth International Conference on Soil Mechanics and Foundation Engineering V 1. 2, pp. 1061-1064.

APPENDIX A
STRESS AND STRAIN RESPONSE TABLES

1. The following pages contain stress and strain tables for the multiaxial cubical apparatus (MCA) experiments and the directional shear cell (DSC) experiments. The MCA results appear first.
2. The formats of the tables and explanation of their contents have been described in Part V. The file name, which is the first entry in each table, serves as the identifying code or label for the table. No other descriptive heading for the tables are given.
3. Stress-strain data for 97 MCA and 32 DSC experiments are contained in the tables.
4. The pages in this Appendix have not been provided with page numbers. There are 197 pages in this Appendix.

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-----
FILE NAME                               : A1
NUMBER OF POINTS                       : 30
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
-----

```

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.25	2.25	2.25	-0.0028	0.0000	0.0036	0.0052
	2.50	2.50	2.50	-0.0028	0.0034	0.0049	0.0080
	2.75	2.75	2.75	-0.0012	0.0058	0.0054	0.0096
	3.00	3.00	3.00	0.0019	0.0087	0.0102	0.0113
	3.25	3.25	3.25	0.0041	0.0132	0.0098	0.0153
	3.50	3.50	3.50	0.0036	0.0117	0.0110	0.0176
	3.75	3.75	3.75	0.0064	0.0119	0.0132	0.0198
	4.00	4.00	4.00	0.0144	0.0153	0.0144	0.0254
	4.25	4.25	4.25	0.0156	0.0164	0.0148	0.0262
	4.50	4.50	4.50	0.0139	0.0183	0.0169	0.0296
	4.75	4.75	4.75	0.0157	0.0145	0.0190	0.0351
	5.00	5.00	5.00	0.0180	0.0211	0.0217	0.0391
A	5.00	5.00	5.00	0.0180	0.0211	0.0217	0.0000

	5.25	4.75	5.00	0.0182	0.0218	0.0204	0.0016
	5.50	4.50	5.00	0.0211	0.0213	0.0223	0.0045
	5.75	4.25	5.00	0.0245	0.0185	0.0235	0.0096
	6.00	4.00	5.00	0.0341	0.0085	0.0245	0.0257
	6.25	3.75	5.00	0.0560	0.0010	0.0246	0.0487
	6.50	3.50	5.00	0.0922	-0.0183	0.0272	0.0966
	6.75	3.25	5.00	0.1603	-0.0646	0.0472	0.1904
	7.00	3.00	5.00	0.3195	-0.1860	0.0612	0.4196
	7.25	2.75	5.00	0.5873	-0.4302	0.0929	0.8381
	7.50	2.50	5.00	0.9036	-0.7305	0.1190	1.3418
1	7.50	2.50	5.00	0.9105	-0.7342	0.1228	0.0000

	7.00	3.00	5.00	0.9087	-0.7352	0.1222	0.0009
	6.50	3.50	5.00	0.9064	-0.7315	0.1260	0.0066
	6.00	4.00	5.00	0.9105	-0.7267	0.1280	0.0089
	5.50	4.50	5.00	0.9045	-0.7166	0.1241	0.0232
A	5.00	5.00	5.00	0.8842	-0.6646	0.1259	0.0838

```

-----
FILE NAME                               : A2
NUMBER OF POINTS                       : 28
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
-----

```

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0022	0.0125	0.0013	0.0102
	3.00	3.00	3.00	0.0055	0.0177	0.0060	0.0118
	3.50	3.50	3.50	0.0137	0.0173	0.0077	0.0192
	4.00	4.00	4.00	0.0156	0.0230	0.0144	0.0232
	4.50	4.50	4.50	0.0164	0.0289	0.0205	0.0282
	4.75	4.75	4.75	0.0210	0.0317	0.0208	0.0317
	5.00	5.00	5.00	0.0171	0.0339	0.0245	0.0383
A	5.00	5.00	5.00	0.0188	0.0329	0.0257	0.0000
	5.30	4.85	4.85	0.0257	0.0318	0.0277	0.0066
	5.60	4.70	4.70	0.0279	0.0302	0.0256	0.0104
	5.90	4.55	4.55	0.0315	0.0328	0.0277	0.0117
	6.20	4.40	4.40	0.0483	0.0318	0.0242	0.0297
	6.50	4.25	4.25	0.0683	0.0270	0.0212	0.0523
	6.80	4.10	4.10	0.1169	0.0239	0.0120	0.1042
	7.10	3.95	3.95	0.2482	-0.0030	-0.0271	0.2594
	7.40	3.80	3.80	0.5053	-0.0776	-0.1223	0.5823
	7.70	3.65	3.65	0.8663	-0.1781	-0.2737	1.0432
2	7.70	3.65	3.65	0.8714	-0.1786	-0.2732	0.0000
	7.40	3.80	3.80	0.8698	-0.1829	-0.2764	0.0022
	7.10	3.95	3.95	0.8701	-0.1808	-0.2722	0.0054
	6.80	4.10	4.10	0.8726	-0.1801	-0.2747	0.0096
	6.50	4.25	4.25	0.8679	-0.1834	-0.2772	0.0114
	6.20	4.40	4.40	0.8720	-0.1830	-0.2770	0.0150
	5.90	4.55	4.55	0.8639	-0.1807	-0.2753	0.0244
	5.60	4.70	4.70	0.8691	-0.1753	-0.2764	0.0305
	5.30	4.85	4.85	0.8679	-0.1762	-0.2730	0.0347
A	5.00	5.00	5.00	0.8669	-0.1746	-0.2740	0.0372

```

-----
FILE NAME                               : A3
NUMBER OF POINTS                       : 25
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STPESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
-----

```

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0050	0.0030	-0.0044	0.0073
	3.00	3.00	3.00	-0.0055	0.0016	-0.0013	0.0112
	3.50	3.50	3.50	-0.0010	0.0060	0.0019	0.0123
	4.00	4.00	4.00	0.0011	0.0113	0.0109	0.0180
	4.50	4.50	4.50	0.0064	0.0123	0.0176	0.0226
	5.00	5.00	5.00	0.0072	0.0134	0.0192	0.0235
A	5.00	5.00	5.00	0.0071	0.0167	0.0199	0.0000
	5.30	5.00	4.70	0.0148	0.0119	0.0178	0.0108
	5.60	5.00	4.40	0.0169	0.0212	0.0176	0.0189
	5.90	5.00	4.10	0.0275	0.0221	0.0199	0.0278
	6.20	5.00	3.80	0.0490	0.0228	0.0176	0.0484
	6.50	5.00	3.50	0.0860	0.0267	0.0048	0.0898
	6.80	5.00	3.20	0.2114	0.0448	-0.0913	0.2706
	7.10	5.00	2.90	0.4505	0.0785	-0.2693	0.6112
	7.35	5.00	2.65	0.7410	0.1244	-0.5261	1.0589
3	7.35	5.00	2.65	0.7409	0.1256	-0.5255	0.0000
	7.10	5.00	2.90	0.7437	0.1239	-0.5265	0.0040
	6.80	5.00	3.20	0.7404	0.1250	-0.5300	0.0082
	6.50	5.00	3.50	0.7425	0.1260	-0.5351	0.0145
	6.20	5.00	3.80	0.7443	0.1249	-0.5360	0.0172
	5.90	5.00	4.10	0.7456	0.1277	-0.5361	0.0195
	5.60	5.00	4.40	0.7414	0.1299	-0.5344	0.0252
	5.30	5.00	4.70	0.7398	0.1270	-0.5258	0.0355
A	5.00	5.00	5.00	0.7404	0.1293	-0.5148	0.0445

```

-----
FILE NAME                               : A4
NUMBER OF POINTS                       : 24
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
-----

```

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0014	0.0126	0.0050	0.0115
	3.00	3.00	3.00	0.0038	0.0191	0.0081	0.0143
	3.50	3.50	3.50	0.0111	0.0238	0.0064	0.0219
	4.00	4.00	4.00	0.0166	0.0215	0.0166	0.0322
	4.50	4.50	4.50	0.0153	0.0268	0.0172	0.0377
	4.75	4.75	4.75	0.0164	0.0323	0.0238	0.0425
	5.00	5.00	5.00	0.0221	0.0340	0.0240	0.0471
A	5.00	5.00	5.00	0.0194	0.0356	0.0251	0.0000
	5.20	5.20	4.60	0.0240	0.0299	0.0235	0.0085
	5.40	5.40	4.20	0.0213	0.0379	0.0240	0.0175
	5.60	5.60	3.80	0.0320	0.0383	0.0220	0.0286
	5.80	5.80	3.40	0.0598	0.0586	-0.0034	0.0756
	6.00	6.00	3.00	0.1414	0.1293	-0.1119	0.2499
	6.20	6.20	2.60	0.3148	0.3168	-0.3975	0.6895
	6.30	6.30	2.40	0.4693	0.4818	-0.6460	1.0745
4	6.30	6.30	2.40	0.4693	0.4850	-0.6449	0.0000
	6.20	6.20	2.60	0.4700	0.4866	-0.6487	0.0047
	6.00	6.00	3.00	0.4716	0.4855	-0.6480	0.0070
	5.80	5.80	3.40	0.4682	0.4823	-0.6490	0.0092
	5.60	5.60	3.80	0.4705	0.4860	-0.6530	0.0159
	5.40	5.40	4.20	0.4689	0.4887	-0.6512	0.0196
	5.20	5.20	4.60	0.4648	0.4839	-0.6362	0.0380
A	5.00	5.00	5.00	0.4684	0.4838	-0.6091	0.0621

```

-----
FILE NAME                               : A5
NUMBER OF POINTS                       : 24
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
-----

```

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0045	0.0061	-0.0021	0.0071
	3.00	3.00	3.00	0.0077	0.0079	0.0117	0.0178
	3.50	3.50	3.50	0.0120	0.0180	0.0132	0.0250
	4.00	4.00	4.00	0.0180	0.0193	0.0206	0.0303
	4.50	4.50	4.50	0.0197	0.0206	0.0275	0.0354
	5.00	5.00	5.00	0.0212	0.0234	0.0279	0.0374
A	5.00	5.00	5.00	0.0200	0.0245	0.0289	0.0000
	5.00	5.30	4.70	0.0199	0.0248	0.0289	0.0003
	5.00	5.60	4.40	0.0199	0.0291	0.0274	0.0053
	5.00	5.90	4.10	0.0184	0.0406	0.0281	0.0166
	5.00	6.20	3.80	0.0295	0.0559	0.0219	0.0352
	5.00	6.50	3.50	0.0333	0.1196	-0.0150	0.1179
	5.00	6.80	3.20	0.0630	0.3055	-0.1459	0.2765
	5.00	7.10	2.90	0.0969	0.6238	-0.3883	0.8343
	5.00	7.20	2.80	0.1140	0.7616	-0.5041	1.0415
S	5.00	7.20	2.80	0.1160	0.7616	-0.5030	0.0000
	5.00	6.80	3.20	0.1132	0.7574	-0.5041	0.0025
	5.00	6.50	3.50	0.1140	0.7611	-0.5088	0.0095
	5.00	6.20	3.80	0.1163	0.7589	-0.5072	0.0134
	5.00	5.90	4.10	0.1139	0.7610	-0.5082	0.0170
	5.00	5.60	4.40	0.1139	0.7583	-0.5053	0.0215
	5.00	5.30	4.70	0.1205	0.7610	-0.5023	0.0251
A	5.00	5.00	5.00	0.1200	0.7568	-0.4815	0.0472

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-----
FILE NAME                               :          A7
NUMBER OF POINTS                       :          25
APPARATUS USED                         :          CUB TRI
TYPE OF TEST                          :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :          7*7*7
INITIAL CONFINMENT STRESS (PSI)        :          5.0
INITIAL RELATIVE DENSITY DR ( % )     :          72.0
-----

```

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0011	0.0018	0.0004	0.0024
	3.00	3.00	3.00	0.0103	0.0066	0.0075	0.0079
	3.50	3.50	3.50	0.0146	0.0068	0.0134	0.0128
	4.00	4.00	4.00	0.0164	0.0115	0.0220	0.0184
	4.50	4.50	4.50	0.0200	0.0128	0.0270	0.0214
	4.75	4.75	4.75	0.0177	0.0140	0.0329	0.0281
	5.00	5.00	5.00	0.0205	0.0147	0.0340	0.0299
A	5.00	5.00	5.00	0.0189	0.0156	0.0334	0.0000
	4.80	5.20	5.00	0.0228	0.0207	0.0345	0.0034
	4.60	5.40	5.00	0.0188	0.0240	0.0347	0.0095
	4.20	5.80	5.00	0.0190	0.0267	0.0358	0.0115
	3.80	6.20	5.00	0.0091	0.0453	0.0318	0.0361
	3.40	6.60	5.00	-0.0279	0.1286	0.0350	0.1361
	3.20	6.80	5.00	-0.0786	0.2090	0.0393	0.2436
	2.80	7.20	5.00	-0.3819	0.5675	0.0688	0.7839
	2.60	7.40	5.00	-0.6566	0.8504	0.1023	1.2401
7	2.60	7.40	5.00	-0.6550	0.8541	0.1034	0.0000
	3.00	7.00	5.00	-0.6576	0.8557	0.1066	0.0050
	3.40	6.60	5.00	-0.6594	0.8558	0.1093	0.0086
	3.80	6.20	5.00	-0.6509	0.8558	0.1058	0.0186
	4.20	5.80	5.00	-0.6460	0.8552	0.1107	0.0238
	4.60	5.40	5.00	-0.6316	0.8532	0.1121	0.0379
	5.00	5.00	5.00	-0.6082	0.8436	0.1143	0.0652
A	5.00	5.00	5.00	-0.6123	0.8404	0.1086	0.0000

```

-----
FILE NAME                               : A8
NUMBER OF POINTS                       : 26
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
-----

```

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0018	-0.0009	-0.0031	0.0040
	3.00	3.00	3.00	0.0063	0.0030	0.0044	0.0072
	3.50	3.50	3.50	-0.0009	0.0038	0.0117	0.0189
	4.00	4.00	4.00	0.0029	0.0092	0.0144	0.0211
	4.50	4.50	4.50	0.0127	0.0105	0.0196	0.0280
	5.00	5.00	5.00	0.0121	0.0117	0.0237	0.0319
A	5.00	5.00	5.00	0.0153	0.0144	0.0243	0.0000
	4.70	5.15	5.15	0.0146	0.0147	0.0294	0.0052
	4.40	5.30	5.30	0.0152	0.0185	0.0247	0.0122
	4.10	5.45	5.45	0.0106	0.0214	0.0289	0.0200
	3.80	5.60	5.60	0.0130	0.0261	0.0318	0.0219
	3.50	5.75	5.75	0.0061	0.0360	0.0453	0.0397
	3.20	5.90	5.90	-0.0277	0.0663	0.0770	0.1008
	2.90	6.05	6.05	-0.1759	0.1694	0.1600	0.3288
	2.60	6.20	6.20	-0.4364	0.3252	0.2980	0.7132
	2.40	6.30	6.30	-0.7224	0.4933	0.4694	1.1429
B	2.40	6.30	6.30	-0.7291	0.4933	0.4694	0.0000
	2.90	6.05	6.05	-0.7280	0.4929	0.4682	0.0018
	3.20	5.90	5.90	-0.7209	0.4971	0.4694	0.0067
	3.50	5.75	5.75	-0.7240	0.4967	0.4710	0.0106
	3.80	5.60	5.60	-0.7268	0.4951	0.4700	0.0120
	4.10	5.45	5.45	-0.7206	0.4945	0.4710	0.0177
	4.40	5.30	5.30	-0.7143	0.4944	0.4725	0.0231
	4.70	5.15	5.15	-0.7014	0.4960	0.4693	0.0367
A	5.00	5.00	5.00	-0.6868	0.4901	0.4688	0.0540

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FILE NAME                               : A9
NUMBER OF POINTS                       : 34
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0012	0.0073	0.0177	0.0136
	3.00	3.00	3.00	0.0181	0.0120	0.0106	0.0331
	3.50	3.50	3.50	0.0244	0.0102	0.0251	0.0464
	4.00	4.00	4.00	0.0320	0.0135	0.0287	0.0503
	4.50	4.50	4.50	0.0338	0.0191	0.0382	0.0566
	5.00	5.00	5.00	0.0278	0.0236	0.0426	0.0665
A	5.00	5.00	5.00	0.0278	0.0241	0.0437	0.0000
	4.80	5.00	5.20	0.0255	0.0242	0.0460	0.0038
	4.60	5.00	5.40	0.0267	0.0275	0.0490	0.0057
	4.40	5.00	5.60	0.0296	0.0259	0.0417	0.0140
	4.20	5.00	5.80	0.0266	0.0270	0.0485	0.0220
	4.00	5.00	6.00	0.0314	0.0302	0.0525	0.0232
	3.80	5.00	6.20	0.0212	0.0297	0.0747	0.0504
	3.60	5.00	6.40	0.0169	0.0318	0.0966	0.0727
	3.40	5.00	6.60	-0.0196	0.0385	0.1526	0.1483
	3.20	5.00	6.80	-0.1201	0.0561	0.2476	0.3090
	3.00	5.00	7.00	-0.1760	0.0579	0.3088	0.4047
	2.80	5.00	7.20	-0.3442	0.0772	0.4571	0.6545
	2.60	5.00	7.40	-0.5564	0.0924	0.6397	0.9881
	2.55	5.00	7.45	-0.6451	0.1041	0.7069	1.1171
9	2.55	5.00	7.45	-0.6435	0.1003	0.7070	0.0000
	2.80	5.00	7.20	-0.6461	0.1040	0.7076	0.0052
	3.00	5.00	7.00	-0.6467	0.1013	0.7085	0.0081
	3.20	5.00	6.80	-0.6464	0.1074	0.7080	0.0140
	3.40	5.00	6.60	-0.6512	0.1106	0.7084	0.0205
	3.60	5.00	6.40	-0.6462	0.1102	0.7132	0.0255
	3.80	5.00	6.20	-0.6423	0.1124	0.7085	0.0329
	4.00	5.00	6.00	-0.6444	0.1091	0.7090	0.0360
	4.20	5.00	5.80	-0.6373	0.1101	0.7130	0.0410
	4.40	5.00	5.60	-0.6283	0.1092	0.7090	0.0521
	4.60	5.00	5.40	-0.6217	0.1096	0.7036	0.0620
	4.80	5.00	5.20	-0.6001	0.1082	0.6860	0.0941
A	5.00	5.00	5.00	-0.5713	0.1172	0.6678	0.1327

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FILE NAME                               : A10
NUMBER OF POINTS                       : 30
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFIMENT STRESS (PSI)         : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0129	0.0001	0.0128	0.0121
	3.00	3.00	3.00	0.0234	0.0083	0.0169	0.0174
	3.50	3.50	3.50	0.0279	0.0127	0.0235	0.0194
	4.00	4.00	4.00	0.0327	0.0195	0.0305	0.0215
	4.50	4.50	4.50	0.0351	0.0223	0.0383	0.0263
	4.75	4.75	4.75	0.0386	0.0256	0.0399	0.0280
	5.00	5.00	5.00	0.0420	0.0261	0.0412	0.0305
A	5.00	5.00	5.00	0.0420	0.0249	0.0412	0.0000
	4.85	4.85	5.30	0.0403	0.0275	0.0468	0.0061
	4.70	4.70	5.60	0.0413	0.0255	0.0534	0.0132
	4.55	4.55	5.90	0.0403	0.0283	0.0589	0.0186
	4.40	4.40	6.20	0.0416	0.0244	0.0798	0.0400
	4.25	4.25	6.50	0.0386	0.0264	0.1046	0.0641
	4.10	4.10	6.80	0.0355	0.0218	0.1503	0.1108
	3.95	3.95	7.10	0.0116	0.0049	0.2499	0.2241
	3.80	3.80	7.40	-0.0382	-0.0424	0.3920	0.4039
	3.65	3.65	7.70	-0.1598	-0.1499	0.6971	0.7997
	3.55	3.55	7.90	-0.2516	-0.2287	0.8981	1.0698
10	3.55	3.55	7.90	-0.2477	-0.2335	0.8987	0.0000
	3.65	3.65	7.70	-0.2492	-0.2292	0.8992	0.0049
	3.80	3.80	7.40	-0.2537	-0.2334	0.8976	0.0075
	3.95	3.95	7.10	-0.2543	-0.2292	0.9028	0.0126
	4.10	4.10	6.80	-0.2550	-0.2298	0.9041	0.0144
	4.25	4.25	6.50	-0.2515	-0.2307	0.9106	0.0205
	4.40	4.40	6.20	-0.2538	-0.2334	0.9158	0.0277
	4.55	4.55	5.90	-0.2544	-0.2307	0.9183	0.0307
	4.70	4.70	5.60	-0.2488	-0.2301	0.9123	0.0402
	4.85	4.85	5.30	-0.2437	-0.2281	0.9042	0.0515
A	5.00	5.00	5.00	-0.2325	-0.2202	0.8884	0.0756

FILE NAME	:	A11
NUMBER OF POINTS	:	27
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
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	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0007	0.0046	0.0020	0.0044
	3.00	3.00	3.00	0.0028	0.0061	0.0097	0.0096
	3.50	3.50	3.50	0.0068	0.0082	0.0172	0.0141
	4.00	4.00	4.00	0.0093	0.0147	0.0163	0.0202
	4.50	4.50	4.50	0.0136	0.0182	0.0260	0.0257
	5.00	5.00	5.00	0.0125	0.0243	0.0296	0.0317
A	5.00	5.00	5.00	0.0135	0.0179	0.0278	0.0000

	5.00	4.70	5.30	0.0115	0.0228	0.0318	0.0062
	5.00	4.40	5.60	0.0188	0.0216	0.0339	0.0132
	5.00	4.10	5.90	0.0189	0.0229	0.0434	0.0216
	5.00	3.80	6.20	0.0183	0.0170	0.0589	0.0397
	5.00	3.50	6.50	0.0219	0.0096	0.0669	0.0527
	5.00	3.20	6.80	0.0181	-0.0144	0.1159	0.1142
	5.00	2.90	7.10	0.0323	-0.0932	0.2453	0.2846
	5.00	2.60	7.40	0.0581	-0.3111	0.4988	0.6696
	5.00	2.40	7.60	0.0841	-0.5502	0.7440	1.0656
	5.00	2.60	7.40	0.0841	-0.5534	0.7451	1.0692
11	5.00	2.60	7.40	0.0817	-0.5518	0.7465	0.0000

	5.00	0.90	7.10	0.0868	-0.5576	0.7451	0.0090
	5.00	3.20	6.80	0.0836	-0.5586	0.7466	0.0129
	5.00	3.50	6.50	0.0841	-0.5585	0.7466	0.0134
	5.00	3.80	6.20	0.0835	-0.5558	0.7520	0.0183
	5.00	4.10	5.90	0.0897	-0.5521	0.7526	0.0229
	5.00	4.40	5.60	0.0907	-0.5423	0.7531	0.0315
	5.00	4.70	5.30	0.0867	-0.5315	0.7480	0.0459
A	5.00	5.00	5.00	0.0925	-0.5092	0.7302	0.0788

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FILE NAME                               : A12
NUMBER OF POINTS                       : 27
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0025	0.0032	0.0139	0.0104
	3.00	3.00	3.00	0.0039	0.0107	0.0104	0.0194
	3.50	3.50	3.50	0.0119	0.0152	0.0119	0.0248
	4.00	4.00	4.00	0.0150	0.0130	0.0212	0.0342
	4.50	4.50	4.50	0.0139	0.0215	0.0226	0.0423
	5.00	5.00	5.00	0.0193	0.0209	0.0318	0.0504
A	5.00	5.00	5.00	0.0145	0.0208	0.0274	0.0000
	5.15	4.70	5.15	0.0171	0.0241	0.0266	0.0036
	5.30	4.40	5.30	0.0195	0.0210	0.0291	0.0089
	5.45	4.10	5.45	0.0207	0.0192	0.0282	0.0114
	5.60	3.80	5.60	0.0254	0.0194	0.0364	0.0179
	5.75	3.50	5.75	0.0386	0.0098	0.0517	0.0404
	5.90	3.20	5.90	0.0611	-0.0225	0.0814	0.0959
	6.05	2.90	6.05	0.1340	-0.1230	0.1311	0.2495
	6.20	2.60	6.20	0.2967	-0.3662	0.2528	0.6145
	6.35	2.30	6.35	0.5156	-0.7567	0.4523	1.1802
12	6.35	2.30	6.35	0.5155	-0.7572	0.4526	0.0000
	6.20	2.60	6.20	0.5161	-0.7599	0.4528	0.0030
	6.05	2.90	6.05	0.5204	-0.7588	0.4542	0.0058
	5.90	3.20	5.90	0.5196	-0.7605	0.4533	0.0066
	5.75	3.50	5.75	0.5179	-0.7589	0.4542	0.0094
	5.60	3.80	5.60	0.5185	-0.7553	0.4500	0.0159
	5.45	4.10	5.45	0.5197	-0.7461	0.4535	0.0227
	5.30	4.40	5.30	0.5208	-0.7342	0.4551	0.0325
	5.15	4.70	5.15	0.5197	-0.7158	0.4540	0.0509
A	5.00	5.00	5.00	0.5181	-0.6903	0.4471	0.0794

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FILE NAME                               :          AB1
NUMBER OF POINTS                       :          29
APPARATUS USED                         :          CUB TRI
TYPE OF TEST                          :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :          7*7*7
INITIAL CONFINMENT STRESS (PSI)       :          5.0
INITIAL RELATIVE DENSITY DR ( % )     :          72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.25	2.25	2.25	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0029	-0.0011	-0.0001	0.0034
	2.75	2.75	2.75	0.0000	-0.0006	0.0009	0.0069
	3.00	3.00	3.00	0.0005	0.0016	0.0054	0.0102
	3.25	3.25	3.25	0.0061	0.0045	0.0083	0.0127
	3.50	3.50	3.50	0.0080	0.0039	0.0037	0.0181
	3.75	3.75	3.75	0.0085	0.0062	0.0068	0.0203
	4.00	4.00	4.00	0.0086	0.0089	0.0096	0.0228
	4.25	4.25	4.25	0.0086	0.0122	0.0173	0.0291
	4.50	4.50	4.50	0.0108	0.0117	0.0175	0.0313
	4.75	4.75	4.75	0.0089	0.0166	0.0191	0.0369
	5.00	5.00	5.00	0.0160	0.0149	0.0203	0.0443
A	5.00	5.00	5.00	0.0154	0.0155	0.0202	0.0000
	5.25	4.75	5.00	0.0165	0.0155	0.0250	0.0041
	5.50	4.50	5.00	0.0194	0.0134	0.0214	0.0096
	5.75	4.25	5.00	0.0256	0.0144	0.0230	0.0144
	6.00	4.00	5.00	0.0275	0.0118	0.0220	0.0181
	6.25	3.75	5.00	0.0411	0.0071	0.0237	0.0331
	6.50	3.50	5.00	0.0814	-0.0086	0.0230	0.0805
	6.75	3.25	5.00	0.1567	-0.0433	0.0263	0.1718
	7.00	3.00	5.00	0.3393	-0.1663	0.0415	0.4217
	7.25	2.75	5.00	0.5776	-0.3697	0.0622	0.7824
	7.50	2.50	5.00	0.9034	-0.6780	0.0767	1.3001
B	7.50	2.50	5.00	0.9042	-0.6754	0.0761	0.0000
	7.70	2.30	5.00	1.2236	-1.0215	0.1030	0.5448
	7.90	2.10	5.00	1.6423	-1.4711	0.1239	1.2545
1	7.90	2.10	5.00	1.6492	-1.4754	0.1259	0.0000
	7.70	2.30	5.00	1.6469	-1.4743	0.1280	0.0038
B	7.50	2.50	5.00	1.6492	-1.4733	0.1312	0.0056

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FILE NAME                               :          AB2
NUMBER OF POINTS                       :          31
APPARATUS USED                         :          CUB TRI
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :          7*7*7
INITIAL CONFINMENT STRESS (PSI)        :          5.0
INITIAL RELATIVE DENSITY DR ( % )      :          72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-CCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0014	0.0022	-0.0053	0.0061
	3.00	3.00	3.00	-0.0008	0.0027	-0.0020	0.0087
	3.50	3.50	3.50	0.0004	0.0016	0.0042	0.0148
	4.00	4.00	4.00	0.0039	0.0103	0.0070	0.0200
	4.50	4.50	4.50	0.0077	0.0136	0.0114	0.0209
	4.75	4.75	4.75	0.0089	0.0175	0.0166	0.0243
	5.00	5.00	5.00	0.0124	0.0159	0.0212	0.0297
A	5.00	5.00	5.00	0.0085	0.0154	0.0158	0.0000
	5.20	4.80	5.00	0.0108	0.0144	0.0222	0.0060
	5.40	4.60	5.00	0.0124	0.0154	0.0230	0.0067
	5.60	4.40	5.00	0.0153	0.0116	0.0235	0.0122
	5.80	4.20	5.00	0.0153	0.0111	0.0202	0.0152
	6.00	4.00	5.00	0.0238	0.0103	0.0218	0.0231
	6.20	3.80	5.00	0.0359	0.0075	0.0244	0.0354
	6.40	3.60	5.00	0.0533	0.0006	0.0267	0.0554
	6.60	3.40	5.00	0.0862	-0.0195	0.0315	0.0987
	6.80	3.20	5.00	0.1826	-0.0698	0.0332	0.2202
	7.00	3.00	5.00	0.3247	-0.1934	0.0590	0.4377
	7.20	2.80	5.00	0.5271	-0.3733	0.0831	0.7500
	7.40	2.60	5.00	0.7544	-0.5982	0.1172	1.1206
B	7.40	2.60	5.00	0.7521	-0.5965	0.1143	0.0000
	7.50	2.55	4.95	0.8754	-0.7174	0.1204	0.1994
	7.60	2.50	4.90	0.9734	-0.8186	0.1445	0.3638
	7.70	2.45	4.85	1.1103	-0.9374	0.1520	0.5726
	7.80	2.40	4.80	1.2127	-1.0561	0.1603	0.7538
	7.90	2.35	4.75	1.3319	-1.1674	0.1594	0.9421
2	7.90	2.35	4.75	1.3286	-1.1691	0.1592	0.0000
	7.70	2.45	4.85	1.3321	-1.1658	0.1620	0.0006
	7.50	2.55	4.95	1.3280	-1.1680	0.1597	0.0024
B	7.40	2.60	5.00	1.3240	-1.1651	0.1626	0.0088

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FILE NAME                               : AB4
NUMBER OF POINTS                       : 38
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0091	0.0024	0.0062	0.0055
	3.00	3.00	3.00	0.0117	0.0086	0.0003	0.0156
	3.50	3.50	3.50	0.0142	0.0154	0.0061	0.0193
	4.00	4.00	4.00	0.0239	0.0143	0.0082	0.0283
	4.50	4.50	4.50	0.0241	0.0161	0.0233	0.0416
	4.75	4.75	4.75	0.0228	0.0162	0.0296	0.0483
	5.00	5.00	5.00	0.0292	0.0194	0.0258	0.0568
A	5.00	5.00	5.00	0.0281	0.0194	0.0263	0.0000
	5.20	4.80	5.00	0.0334	0.0172	0.0285	0.0061
	5.40	4.60	5.00	0.0295	0.0173	0.0312	0.0116
	5.60	4.40	5.00	0.0346	0.0173	0.0298	0.0172
	5.80	4.20	5.00	0.0362	0.0148	0.0317	0.0212
	6.00	4.00	5.00	0.0397	0.0164	0.0338	0.0228
	6.20	3.80	5.00	0.0502	0.0119	0.0339	0.0353
	6.40	3.60	5.00	0.0696	0.0084	0.0373	0.0546
	6.60	3.40	5.00	0.1182	-0.0321	0.0498	0.1277
	6.80	3.20	5.00	0.1894	-0.0856	0.0421	0.2307
	7.00	3.00	5.00	0.3556	-0.2107	0.0639	0.4686
	7.20	2.80	5.00	0.5329	-0.3765	0.0880	0.7492
	7.40	2.60	5.00	0.8202	-0.6531	0.1271	1.2108
B	7.40	2.60	5.00	0.8202	-0.6558	0.1230	0.0000
	7.50	2.70	4.80	0.8238	-0.6520	0.1252	0.0014
	7.60	2.80	4.60	0.8315	-0.6578	0.1249	0.0126
	7.70	2.90	4.40	0.8445	-0.6597	0.1288	0.0248
	7.80	3.00	4.20	0.8645	-0.6609	0.1283	0.0445
	7.90	3.10	4.00	0.9940	-0.7133	0.1169	0.2002
	8.00	3.20	3.80	1.0351	-0.7166	0.1015	0.2488
	8.10	3.30	3.60	1.2002	-0.7517	0.0217	0.4618
	8.20	3.40	3.40	1.3890	-0.8009	-0.0776	0.7132
	8.30	3.50	3.20	1.6181	-0.8361	-0.2267	1.0301
4	8.30	3.50	3.20	1.6135	-0.8379	-0.2249	0.0000
	8.10	3.30	3.60	1.6170	-0.8404	-0.2285	0.0062
	7.90	3.10	4.00	1.6205	-0.8371	-0.2285	0.0094
	7.70	2.90	4.40	1.6213	-0.8469	-0.2344	0.0181
	7.60	2.80	4.60	1.6217	-0.8522	-0.2324	0.0243
	7.50	2.70	4.80	1.6228	-0.8652	-0.2265	0.0404
B	7.40	2.60	5.00	1.6255	-0.8881	-0.2240	0.0644

FILE NAME	:	AB5
NUMBER OF POINTS	:	41
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0023	0.0031	-0.0038	0.0059
	3.00	3.00	3.00	0.0017	0.0053	0.0027	0.0094
	3.50	3.50	3.50	0.0050	0.0047	-0.0038	0.0175
	4.00	4.00	4.00	0.0102	0.0091	0.0028	0.0194
	4.50	4.50	4.50	0.0130	0.0107	0.0100	0.0241
	5.00	5.00	5.00	0.0130	0.0128	0.0123	0.0263
A	5.00	5.00	5.00	0.0149	0.0122	0.0117	0.0000
	5.20	4.80	5.00	0.0142	0.0118	0.0130	0.0018
	5.40	4.60	5.00	0.0149	0.0134	0.0139	0.0025
	5.60	4.40	5.00	0.0194	0.0107	0.0146	0.0083
	5.80	4.20	5.00	0.0220	0.0117	0.0157	0.0098
	6.00	4.00	5.00	0.0277	0.0112	0.0136	0.0165
	6.20	3.80	5.00	0.0411	0.0087	0.0162	0.0298
	6.40	3.60	5.00	0.0543	0.0007	0.0163	0.0472
	6.60	3.40	5.00	0.0983	-0.0257	0.0200	0.1050
	6.80	3.20	5.00	0.1652	-0.0761	0.0297	0.2007
	7.00	3.00	5.00	0.3209	-0.1931	0.0500	0.4234
	7.20	2.80	5.00	0.4911	-0.3612	0.0704	0.7003
	7.40	2.60	5.00	0.7202	-0.5726	0.0953	1.0602
B	7.40	2.60	5.00	0.7157	-0.5754	0.0922	0.0000
	7.40	2.80	4.80	0.7257	-0.5716	0.0974	0.0054
	7.40	3.00	4.60	0.7257	-0.5716	0.0952	0.0074
	7.40	3.20	4.40	0.7262	-0.5738	0.0946	0.0096
	7.40	3.40	4.20	0.7340	-0.5721	0.0967	0.0152
	7.40	3.60	4.00	0.7418	-0.5718	0.0977	0.0219
	7.40	3.80	3.80	0.7495	-0.5664	0.0914	0.0341
	7.40	4.00	3.60	0.7872	-0.5645	0.0669	0.0852
	7.40	4.20	3.40	0.8141	-0.5508	0.0425	0.1287
	7.40	4.40	3.20	0.9119	-0.5243	-0.0499	0.2855
	7.40	4.60	3.00	0.9956	-0.4723	-0.1376	0.4345
	7.40	4.80	2.80	1.0881	-0.4253	-0.2496	0.6097
	7.40	5.00	2.60	1.2156	-0.3310	-0.4286	0.8845
	7.40	5.10	2.50	1.2939	-0.2782	-0.5403	1.0528
5	7.40	5.10	2.50	1.2938	-0.2791	-0.5382	0.0000
	7.40	4.80	2.80	1.2974	-0.2803	-0.5411	0.0055
	7.40	4.40	3.20	1.2996	-0.2802	-0.5485	0.0138
	7.40	4.00	3.60	1.3031	-0.2878	-0.5464	0.0237
	7.40	3.60	4.00	1.3048	-0.2872	-0.5406	0.0282
	7.40	3.20	4.40	1.3414	-0.3326	-0.5046	0.1051
B	7.40	2.60	5.00	1.4991	-0.5793	-0.3927	0.4668

FILE NAME	:	AB6
NUMBER OF POINTS	:	39
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0029	0.0002	0.0069	0.0055
	3.00	3.00	3.00	0.0034	0.0110	0.0011	0.0191
	3.50	3.50	3.50	0.0051	0.0080	0.0096	0.0286
	4.00	4.00	4.00	0.0165	0.0135	0.0146	0.0344
	4.50	4.50	4.50	0.0171	0.0170	0.0236	0.0414
	4.75	4.75	4.75	0.0181	0.0181	0.0269	0.0435
	5.00	5.00	5.00	0.0167	0.0189	0.0262	0.0453
A	5.00	5.00	5.00	0.0208	0.0182	0.0225	0.0000
	5.20	4.80	5.00	0.0232	0.0195	0.0263	0.0021
	5.40	4.60	5.00	0.0224	0.0221	0.0238	0.0058
	5.60	4.40	5.00	0.0245	0.0183	0.0350	0.0132
	5.80	4.20	5.00	0.0277	0.0145	0.0280	0.0218
	6.00	4.00	5.00	0.0324	0.0117	0.0305	0.0281
	6.20	3.80	5.00	0.0493	0.0163	0.0295	0.0430
	6.40	3.60	5.00	0.0682	0.0061	0.0260	0.0679
	6.60	3.40	5.00	0.1079	-0.0146	0.0296	0.1175
	6.80	3.20	5.00	0.2199	-0.0906	0.0382	0.2713
	7.00	3.00	5.00	0.3884	-0.2129	0.0499	0.5090
	7.20	2.80	5.00	0.6311	-0.4121	0.0675	0.8698
	7.40	2.60	5.00	0.8977	-0.6614	0.0925	1.2912
B	7.40	2.60	5.00	0.9028	-0.6641	0.0896	0.0000
	7.20	3.00	4.80	0.9010	-0.6602	0.0967	0.0074
	7.00	3.40	4.60	0.9053	-0.6597	0.0997	0.0105
	6.80	3.80	4.40	0.9024	-0.6615	0.0972	0.0114
	6.60	4.20	4.20	0.9038	-0.6528	0.1008	0.0174
	6.40	4.60	4.00	0.9035	-0.6433	0.0945	0.0306
	6.20	5.00	3.80	0.9095	-0.5920	0.0807	0.0850
	6.00	5.40	3.60	0.9110	-0.4973	0.0407	0.1976
	5.80	5.80	3.40	0.9293	-0.3305	-0.0843	0.4359
	5.60	6.20	3.20	0.9417	-0.1629	-0.1977	0.6658
	5.40	6.60	3.00	0.9394	0.0739	-0.3626	0.9957
6	5.40	6.60	3.00	0.9424	0.0738	-0.3651	0.0000
	5.80	5.80	3.40	0.9406	0.0985	-0.3818	0.0342
	6.20	5.00	3.80	0.9486	0.1002	-0.3799	0.0400
	6.60	4.20	4.20	0.9629	0.0941	-0.3793	0.0570
	7.00	3.40	4.60	1.0420	0.0164	-0.3604	0.1862
	7.20	3.00	4.80	1.1725	-0.1465	-0.3020	0.4358
B	7.40	2.60	5.00	1.4881	-0.5678	-0.1739	1.0612

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FILE NAME                               :          AB7
NUMBER OF POINTS                        :          32
APPARATUS USED                         :          CUB TRI
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :          7*7*7
INITIAL CONFINMENT STRESS (PSI)        :          5.0
INITIAL RELATIVE DENSITY DR ( % )      :          72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.25	2.25	2.25	0.0018	0.0000	-0.0033	0.0042
	2.50	2.50	2.50	0.0041	0.0021	-0.0050	0.0080
	2.75	2.75	2.75	0.0024	0.0021	0.0057	0.0190
	3.00	3.00	3.00	0.0087	0.0048	0.0055	0.0243
	3.25	3.25	3.25	0.0050	0.0044	0.0085	0.0298
	3.50	3.50	3.50	0.0079	0.0081	0.0065	0.0347
	3.75	3.75	3.75	0.0079	0.0088	0.0115	0.0391
	4.00	4.00	4.00	0.0114	0.0109	0.0128	0.0409
	4.25	4.25	4.25	0.0075	0.0120	0.0165	0.0472
	4.50	4.50	4.50	0.0110	0.0148	0.0141	0.0525
	4.75	4.75	4.75	0.0145	0.0159	0.0169	0.0546
	5.00	5.00	5.00	0.0163	0.0171	0.0207	0.0568
A	5.00	5.00	5.00	0.0174	0.0182	0.0213	0.0000
	5.25	4.75	5.00	0.0199	0.0160	0.0229	0.0040
	5.50	4.50	5.00	0.0210	0.0161	0.0225	0.0053
	6.00	4.00	5.00	0.0321	0.0136	0.0249	0.0165
	6.25	3.75	5.00	0.0539	0.0072	0.0272	0.0401
	6.50	3.50	5.00	0.0869	-0.0118	0.0256	0.0834
	6.75	3.25	5.00	0.1697	-0.0586	0.0286	0.1902
	7.00	3.00	5.00	0.3159	-0.1850	0.0478	0.4129
	7.15	2.85	5.00	0.4802	-0.3286	0.0630	0.6644
	7.35	2.65	5.00	0.7100	-0.5416	0.0852	1.0261
B	7.35	2.65	5.00	0.7102	-0.5422	0.0848	0.0000
	7.00	3.00	5.00	0.7112	-0.5438	0.0838	0.0023
	6.50	3.50	5.00	0.7119	-0.5414	0.0876	0.0048
	6.00	4.00	5.00	0.7100	-0.5305	0.0880	0.0087
	5.50	4.50	5.00	0.7060	-0.5327	0.0902	0.0169
	5.00	5.00	5.00	0.6950	-0.5090	0.0902	0.0458
	4.50	5.50	5.00	0.6526	-0.4323	0.0996	0.1434
	4.00	6.00	5.00	0.5576	-0.2866	0.1010	0.3411
7	3.75	6.25	5.00	0.4831	-0.1938	0.1075	0.4778

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FILE NAME                               : AB8
NUMBER OF POINTS                       : 40
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0011	-0.0005	-0.0003	0.0006
	3.00	3.00	3.00	0.0041	0.0024	0.0081	0.0052
	3.50	3.50	3.50	0.0070	0.0089	0.0154	0.0090
	4.00	4.00	4.00	0.0083	0.0168	0.0162	0.0154
	4.50	4.50	4.50	0.0067	0.0185	0.0213	0.0209
	4.75	4.75	4.75	0.0089	0.0181	0.0254	0.0246
	5.00	5.00	5.00	0.0142	0.0130	0.0227	0.0335
A	5.00	5.00	5.00	0.0131	0.0133	0.0248	0.0000
	5.20	4.80	5.00	0.0143	0.0151	0.0222	0.0039
	5.40	4.60	5.00	0.0161	0.0163	0.0257	0.0058
	5.60	4.40	5.00	0.0217	0.0135	0.0238	0.0134
	5.80	4.20	5.00	0.0239	0.0141	0.0289	0.0171
	6.00	4.00	5.00	0.0266	0.0080	0.0332	0.0262
	6.20	3.80	5.00	0.0382	0.0053	0.0317	0.0392
	6.40	3.60	5.00	0.0479	-0.0010	0.0328	0.0523
	6.60	3.40	5.00	0.0906	-0.0283	0.0404	0.1094
	6.80	3.20	5.00	0.1601	-0.0789	0.0510	0.2075
	7.00	3.00	5.00	0.3141	-0.2072	0.0765	0.4383
	7.20	2.80	5.00	0.5019	-0.3945	0.1179	0.7471
	7.40	2.60	5.00	0.7492	-0.6394	0.1643	1.1512
B	7.40	2.60	5.00	0.7495	-0.6417	0.1636	0.0000
	7.00	2.80	5.20	0.7502	-0.6394	0.1636	0.0020
	6.60	3.00	5.40	0.7479	-0.6404	0.1686	0.0083
	6.20	3.20	5.60	0.7446	-0.6378	0.1781	0.0188
	5.80	3.40	5.80	0.7458	-0.6389	0.1818	0.0227
	5.40	3.60	6.00	0.7394	-0.6389	0.1823	0.0289
	5.00	3.80	6.20	0.7276	-0.6334	0.1980	0.0516
	4.60	4.00	6.40	0.7151	-0.6281	0.2288	0.0873
	4.20	4.20	6.60	0.6614	-0.6097	0.3034	0.1922
	3.80	4.40	6.80	0.5878	-0.5801	0.3955	0.3289
	3.40	4.60	7.00	0.4019	-0.5182	0.5686	0.6289
	3.00	4.80	7.20	0.1185	-0.4631	0.8579	1.0992
8	3.00	4.80	7.20	0.1174	-0.4631	0.8590	0.0000
	3.80	4.40	6.80	0.1224	-0.4608	0.8613	0.0026
	4.60	4.00	6.40	0.1282	-0.4593	0.8671	0.0066
	5.40	3.60	6.00	0.1503	-0.4634	0.8712	0.0286
	6.20	3.20	5.60	0.2356	-0.5210	0.8843	0.1453
	7.00	2.80	5.20	0.4652	-0.7161	0.8902	0.4922
B	7.40	2.60	5.00	0.6851	-0.9144	0.8872	0.8339

FILE NAME	:	AB9
NUMBER OF POINTS	:	44
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
A	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0011	0.0011	0.0009	0.0019
	3.00	3.00	3.00	0.0089	0.0045	-0.0003	0.0111
	3.50	3.50	3.50	0.0055	0.0120	0.0081	0.0219
	4.00	4.00	4.00	0.0092	0.0142	0.0105	0.0232
	4.50	4.50	4.50	0.0123	0.0160	0.0160	0.0263
	4.75	4.75	4.75	0.0111	0.0155	0.0187	0.0297
	5.00	5.00	5.00	0.0147	0.0177	0.0179	0.0334
	5.00	5.00	5.00	0.0140	0.0194	0.0177	0.0000
	5.20	4.80	5.00	0.0162	0.0177	0.0220	0.0050
B	5.40	4.60	5.00	0.0193	0.0184	0.0196	0.0095
	5.60	4.40	5.00	0.0223	0.0162	0.0226	0.0144
	5.80	4.20	5.00	0.0203	0.0166	0.0189	0.0177
	6.00	4.00	5.00	0.0270	0.0119	0.0184	0.0271
	6.20	3.80	5.00	0.0397	0.0131	0.0229	0.0368
	6.40	3.60	5.00	0.0588	0.0018	0.0258	0.0516
	6.60	3.40	5.00	0.1015	-0.0217	0.0285	0.1160
	6.80	3.20	5.00	0.1876	-0.0762	0.0382	0.2310
	7.00	3.00	5.00	0.3474	-0.2065	0.0578	0.4679
	7.20	2.80	5.00	0.5567	-0.3920	0.0817	0.7905
9	7.40	2.60	5.00	0.8252	-0.6394	0.1091	1.2119
	7.40	2.60	5.00	0.8302	-0.6409	0.1085	0.0000
	7.20	2.60	5.20	0.8295	-0.6422	0.1149	0.0070
	7.00	2.60	5.40	0.8308	-0.6460	0.1156	0.0115
	6.80	2.60	5.60	0.8284	-0.6492	0.1225	0.0207
	6.60	2.60	5.80	0.8279	-0.6519	0.1278	0.0274
	6.40	2.60	6.00	0.8321	-0.6587	0.1331	0.0383
	6.20	2.60	6.20	0.8319	-0.6715	0.1450	0.0586
	6.00	2.60	6.40	0.8281	-0.6887	0.1632	0.0877
	5.80	2.60	6.60	0.8301	-0.7382	0.2128	0.1687
B	5.60	2.60	6.80	0.8277	-0.7770	0.2513	0.2318
	5.40	2.60	7.00	0.8245	-0.8572	0.3314	0.3628
	5.20	2.60	7.20	0.8208	-0.9329	0.4142	0.4923
	5.00	2.60	7.40	0.8094	-1.0303	0.5429	0.6787
	4.80	2.60	7.60	0.7953	-1.1143	0.6469	0.8338
	4.60	2.60	7.80	0.7574	-1.2735	0.8246	1.1125
	4.60	2.60	7.80	0.7534	-1.2746	0.8224	0.0000
	5.00	2.60	7.40	0.7513	-1.2820	0.8258	0.0088
	5.40	2.60	7.00	0.7514	-1.2809	0.8306	0.0128
	5.80	2.60	6.60	0.7544	-1.2830	0.8323	0.0171
B	6.20	2.60	6.20	0.7662	-1.2819	0.8330	0.0275
	6.60	2.60	5.80	0.7819	-1.2883	0.8313	0.0465
	7.00	2.60	5.40	0.8176	-1.3087	0.8191	0.0959
	7.40	2.60	5.00	0.9610	-1.3806	0.7886	0.2826

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FILE NAME                               : AB10
NUMBER OF POINTS                       : 39
APPARATUS USED                        : CUB TRI
TYPE OF TEST                          : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.) : 7*7*7
INITIAL CONFINMENT STRESS (PSI)       : 5.0
INITIAL RELATIVE DENSITY DR ( % )    : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0021	0.0060	-0.0002	0.0069
	3.00	3.00	3.00	0.0095	0.0106	0.0040	0.0137
	3.50	3.50	3.50	0.0091	0.0146	0.0073	0.0176
	4.00	4.00	4.00	0.0123	0.0114	0.0185	0.0293
	4.50	4.50	4.50	0.0076	0.0170	0.0234	0.0386
	5.00	5.00	5.00	0.0157	0.0221	0.0211	0.0474
A	5.00	5.00	5.00	0.0140	0.0209	0.0248	0.0000
	5.20	4.80	5.00	0.0223	0.0214	0.0261	0.0070
	5.40	4.60	5.00	0.0186	0.0243	0.0238	0.0127
	5.60	4.40	5.00	0.0295	0.0221	0.0249	0.0238
	5.80	4.20	5.00	0.0282	0.0215	0.0255	0.0254
	6.00	4.00	5.00	0.0318	0.0205	0.0276	0.0292
	6.20	3.80	5.00	0.0406	0.0157	0.0294	0.0403
	6.40	3.60	5.00	0.0619	0.0152	0.0277	0.0615
	6.60	3.40	5.00	0.0954	-0.0074	0.0267	0.1077
	6.80	3.20	5.00	0.1635	-0.0565	0.0331	0.2034
	7.00	3.00	5.00	0.2778	-0.1473	0.0393	0.3709
	7.20	2.80	5.00	0.4580	-0.3081	0.0541	0.6494
	7.40	2.60	5.00	0.7086	-0.5502	0.0747	1.0520
B	7.40	2.60	5.00	0.7109	-0.5556	0.0722	0.0000
	7.25	2.45	5.30	0.7663	-0.6242	0.0923	0.1043
	7.10	2.30	5.60	0.8526	-0.7519	0.1150	0.2838
	6.95	2.15	5.90	0.9879	-0.9795	0.2215	0.6132
	6.80	2.00	6.20	1.0887	-1.1907	0.3078	0.9007
	6.65	1.85	6.50	1.2187	-1.5114	0.4848	1.3494
10	6.65	1.85	6.50	1.2193	-1.5104	0.4863	0.0000
	6.80	2.00	6.20	1.2221	-1.5102	0.4892	0.0025
	6.95	2.15	5.90	1.2263	-1.5105	0.4882	0.0071
	7.10	2.30	5.60	1.2290	-1.5148	0.4914	0.0140
	7.25	2.45	5.30	1.2319	-1.5131	0.4924	0.0155
	7.40	2.60	5.00	1.2462	-1.5125	0.4914	0.0293
B	7.40	2.60	5.00	1.2433	-1.5103	0.4919	0.0000
	7.00	3.00	5.00	1.2495	-1.5097	0.4902	0.0066
	6.60	3.40	5.00	1.2484	-1.5068	0.4934	0.0105
	6.20	3.80	5.00	1.2472	-1.4987	0.4904	0.0201
	5.80	4.20	5.00	1.2406	-1.4744	0.4872	0.0478
	5.40	4.60	5.00	1.2260	-1.4134	0.4793	0.1162
A	5.00	5.00	5.00	1.1846	-1.2890	0.4632	0.2621

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FILE NAME                               :          AB11
NUMBER OF POINTS                       :          32
APPARATUS USED                         :          CUB TRI
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :          7*7*7
INITIAL CONFIMENT STRESS (PSI)         :          5.0
INITIAL RELATIVE DENSITY DR ( % )     :          72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0007	-0.0011	0.0004	0.0016
	3.00	3.00	3.00	0.0042	0.0083	0.0101	0.0073
	3.50	3.50	3.50	0.0065	0.0061	0.0102	0.0111
	4.00	4.00	4.00	0.0105	0.0133	0.0149	0.0138
	4.50	4.50	4.50	0.0129	0.0168	0.0165	0.0153
	5.00	5.00	5.00	0.0140	0.0248	0.0247	0.0219
A	5.00	5.00	5.00	0.0135	0.0239	0.0248	0.0000
	5.20	4.80	5.00	0.0134	0.0238	0.0212	0.0033
	5.40	4.60	5.00	0.0182	0.0238	0.0247	0.0073
	5.60	4.40	5.00	0.0204	0.0217	0.0255	0.0109
	5.80	4.20	5.00	0.0234	0.0239	0.0260	0.0130
	6.00	4.00	5.00	0.0303	0.0185	0.0288	0.0232
	6.20	3.80	5.00	0.0337	0.0170	0.0290	0.0273
	6.40	3.60	5.00	0.0474	0.0059	0.0276	0.0477
	6.60	3.40	5.00	0.0850	-0.0084	0.0376	0.0900
	6.80	3.20	5.00	0.1651	-0.0659	0.0500	0.2024
	7.00	3.00	5.00	0.3231	-0.1925	0.0708	0.4349
	7.20	2.80	5.00	0.5282	-0.3851	0.0963	0.7601
	7.40	2.60	5.00	0.7636	-0.6085	0.1342	1.1359
B	7.40	2.60	5.00	0.7642	-0.6095	0.1356	0.0000
	7.40	2.50	5.10	0.9005	-0.7511	0.1530	0.2277
	7.40	2.40	5.20	1.0005	-0.8713	0.1786	0.4106
	7.40	2.30	5.30	1.1388	-1.0218	0.2141	0.6496
	7.40	2.20	5.40	1.2368	-1.1610	0.2480	0.8501
	7.40	2.15	5.45	1.2430	-1.1795	0.2581	0.8753
	7.40	2.20	5.40	1.2459	-1.1777	0.2600	0.8764
	7.40	2.10	5.50	1.3513	-1.3412	0.3090	1.1079
11	7.40	2.10	5.50	1.3518	-1.3433	0.3093	0.0000
	7.40	2.30	5.30	1.3542	-1.3422	0.3120	0.0014
	7.40	2.50	5.10	1.3565	-1.3406	0.3110	0.0042
B	7.40	2.60	5.00	1.3513	-1.3428	0.3116	0.0090

FILE NAME	:	AB12
NUMBER OF POINTS	:	29
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0018	0.0029	-0.0014	0.0036
	3.00	3.00	3.00	0.0015	0.0074	0.0034	0.0082
	3.50	3.50	3.50	0.0040	0.0120	0.0050	0.0108
	4.00	4.00	4.00	0.0057	0.0128	0.0123	0.0165
	4.50	4.50	4.50	0.0116	0.0123	0.0138	0.0218
	4.75	4.75	4.75	0.0134	0.0142	0.0182	0.0243
	5.00	5.00	5.00	0.0132	0.0185	0.0167	0.0291
A	5.00	5.00	5.00	0.0157	0.0153	0.0188	0.0000
	5.20	4.80	5.00	0.0198	0.0174	0.0193	0.0029
	5.40	4.60	5.00	0.0200	0.0180	0.0213	0.0044
	5.60	4.40	5.00	0.0201	0.0159	0.0191	0.0065
	5.80	4.20	5.00	0.0276	0.0159	0.0246	0.0128
	6.00	4.00	5.00	0.0329	0.0155	0.0226	0.0191
	6.20	3.80	5.00	0.0414	0.0122	0.0208	0.0296
	6.40	3.60	5.00	0.0542	0.0048	0.0246	0.0461
	6.60	3.40	5.00	0.0875	-0.0121	0.0258	0.0876
	6.80	3.20	5.00	0.1435	-0.0478	0.0287	0.1628
	7.00	3.00	5.00	0.2750	-0.1438	0.0379	0.3487
	7.20	2.80	5.00	0.4651	-0.3194	0.0545	0.6474
	7.40	2.60	5.00	0.7180	-0.5461	0.0771	1.0392
B	7.40	2.60	5.00	0.7202	-0.5494	0.0773	0.0000
	7.45	2.50	5.05	0.8648	-0.7024	0.0921	0.2437
	7.50	2.40	5.10	0.9395	-0.7851	0.1044	0.3731
	7.55	2.30	5.15	1.1266	-1.0044	0.1292	0.7071
	7.60	2.20	5.20	1.2673	-1.1647	0.1474	0.9543
12	7.60	2.20	5.20	1.2679	-1.1646	0.1474	0.0000
	7.50	2.40	5.10	1.2696	-1.1619	0.1477	0.0021
B	7.40	2.60	5.00	1.2742	-1.1640	0.1463	0.0081

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FILE NAME                               :          ABC1
NUMBER OF POINTS                       :          37
APPARATUS USED                         :          CUB TRI
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :          7*7*7
INITIAL CONFINMENT STRESS (PSI)        :          5.0
INITIAL RELATIVE DENSITY DR ( % )      :          72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0051	0.0024	0.0011	0.0034
	3.00	3.00	3.00	0.0093	0.0093	-0.0017	0.0114
	3.50	3.50	3.50	0.0113	0.0119	0.0011	0.0121
	4.00	4.00	4.00	0.0098	0.0157	0.0093	0.0199
	4.50	4.50	4.50	0.0166	0.0203	0.0096	0.0253
	4.75	4.75	4.75	0.0185	0.0210	0.0117	0.0266
	5.00	5.00	5.00	0.0191	0.0216	0.0163	0.0304
A	5.00	5.00	5.00	0.0158	0.0264	0.0180	0.0000
	5.20	4.80	5.00	0.0204	0.0207	0.0193	0.0086
	5.40	4.60	5.00	0.0223	0.0189	0.0152	0.0136
	5.60	4.40	5.00	0.0216	0.0179	0.0146	0.0140
	5.80	4.20	5.00	0.0246	0.0156	0.0169	0.0186
	6.00	4.00	5.00	0.0336	0.0173	0.0139	0.0284
	6.20	3.80	5.00	0.0378	0.0139	0.0134	0.0347
	6.40	3.60	5.00	0.0511	0.0107	0.0210	0.0484
	6.60	3.40	5.00	0.0762	-0.0087	0.0222	0.0848
	6.80	3.20	5.00	0.1527	-0.0628	0.0301	0.1915
	7.00	3.00	5.00	0.2822	-0.1750	0.0505	0.3891
	7.20	2.80	5.00	0.4986	-0.3640	0.0762	0.7204
	7.40	2.60	5.00	0.7438	-0.6134	0.1155	1.1260
B	7.40	2.60	5.00	0.7397	-0.6112	0.1142	0.0000
	7.60	2.50	4.90	0.9291	-0.8078	0.1340	0.3159
	7.80	2.40	4.80	1.2103	-1.0810	0.1531	0.7688
	7.90	2.35	4.75	1.3399	-1.2295	0.1584	0.9963
C	7.90	2.35	4.75	1.3369	-1.2296	0.1538	0.0000
	8.00	2.25	4.75	1.6104	-1.5048	0.1730	0.4484
	8.10	2.15	4.75	1.8162	-1.7476	0.1880	0.8160
	8.15	2.10	4.75	1.9031	-1.8477	0.1911	0.9690
1	8.15	2.10	4.75	1.9014	-1.8476	0.1922	0.0000
	8.05	2.20	4.75	1.9037	-1.8461	0.1896	0.0043
	7.95	2.30	4.75	1.9060	-1.8462	0.1932	0.0074
	7.90	2.35	4.75	1.9009	-1.8461	0.1937	0.0124
C	7.90	2.35	4.75	1.9060	-1.8484	0.1916	0.0000
	7.80	2.40	4.80	1.9031	-1.8488	0.1939	0.0043
	7.60	2.50	4.90	1.9030	-1.8455	0.1944	0.0072
B	7.40	2.60	5.00	1.9054	-1.8471	0.1971	0.0110

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FILE NAME                               : ABC2
NUMBER OF POINTS                       : 35
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENSIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINEMENT STRESS (PSI)       : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0040	0.0033	-0.0010	0.0045
	3.00	3.00	3.00	0.0021	0.0005	0.0004	0.0081
	3.50	3.50	3.50	0.0013	0.0108	0.0074	0.0174
	4.00	4.00	4.00	0.0076	0.0126	0.0102	0.0213
	4.50	4.50	4.50	0.0119	0.0134	0.0153	0.0251
	5.00	5.00	5.00	0.0153	0.0158	0.0110	0.0319
A	5.00	5.00	5.00	0.0137	0.0176	0.0109	0.0000
	5.20	4.80	5.00	0.0178	0.0147	0.0129	0.0058
	5.40	4.60	5.00	0.0144	0.0143	0.0176	0.0125
	5.60	4.40	5.00	0.0169	0.0137	0.0188	0.0149
	5.80	4.20	5.00	0.0192	0.0137	0.0179	0.0177
	6.00	4.00	5.00	0.0279	0.0110	0.0180	0.0274
	6.20	3.80	5.00	0.0336	0.0124	0.0157	0.0339
	6.40	3.60	5.00	0.0412	0.0048	0.0225	0.0479
	6.60	3.40	5.00	0.0734	-0.0114	0.0190	0.0889
	6.80	3.20	5.00	0.1433	-0.0590	0.0291	0.1848
	7.00	3.00	5.00	0.2773	-0.1671	0.0442	0.3825
	7.20	2.80	5.00	0.4932	-0.3603	0.0705	0.7168
	7.40	2.60	5.00	0.7098	-0.5884	0.0993	1.0814
B	7.40	2.60	5.00	0.7097	-0.5900	0.0967	0.0000
	7.60	2.50	4.90	0.8971	-0.7643	0.1109	0.2954
	7.80	2.40	4.80	1.1557	-1.0250	0.1307	0.7199
	7.90	2.35	4.75	1.2858	-1.1634	0.1352	0.9392
C	7.90	2.35	4.75	1.2810	-1.1635	0.1349	0.0000
	8.00	2.30	4.70	1.4066	-1.3133	0.1456	0.2495
	8.10	2.25	4.65	1.6043	-1.4972	0.1455	0.5367
	8.20	2.20	4.60	1.7499	-1.6503	0.1485	0.7806
	8.30	2.15	4.55	1.9447	-1.8596	0.1546	1.1108
2	8.30	2.15	4.55	1.9414	-1.8569	0.1521	0.0000
	8.10	2.25	4.65	1.9425	-1.8683	0.1561	0.0133
	7.90	2.35	4.75	1.9455	-1.8622	0.1582	0.0167
C	7.90	2.35	4.75	1.9455	-1.8622	0.1582	0.0000
	7.60	2.50	4.90	1.9442	-1.8671	0.1534	0.0033
B	7.40	2.60	5.00	1.9471	-1.8651	0.1556	0.0041

FILE NAME	:	ABC3
NUMBER OF POINTS	:	41
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0011	0.0006	0.0003	0.0006
	3.00	3.00	3.00	0.0080	0.0062	0.0041	0.0032
	3.50	3.50	3.50	0.0086	0.0086	0.0035	0.0057
	4.00	4.00	4.00	0.0146	0.0148	0.0135	0.0095
	4.50	4.50	4.50	0.0192	0.0139	0.0143	0.0141
	4.75	4.75	4.75	0.0214	0.0184	0.0196	0.0167
	5.00	5.00	5.00	0.0237	0.0195	0.0235	0.0190
A	5.00	5.00	5.00	0.0244	0.0135	0.0224	0.0000
	5.20	4.80	5.00	0.0238	0.0148	0.0246	0.0022
	5.40	4.60	5.00	0.0309	0.0180	0.0222	0.0100
	5.60	4.40	5.00	0.0321	0.0190	0.0196	0.0131
	5.80	4.20	5.00	0.0395	0.0180	0.0195	0.0202
	6.00	4.00	5.00	0.0402	0.0148	0.0168	0.0236
	6.20	3.80	5.00	0.0494	0.0126	0.0201	0.0328
	6.40	3.60	5.00	0.0597	0.0071	0.0213	0.0458
	6.60	3.40	5.00	0.0839	-0.0086	0.0255	0.0784
	6.80	3.20	5.00	0.1385	-0.0649	0.0303	0.1691
	7.00	3.00	5.00	0.2692	-0.1875	0.0492	0.3764
	7.20	2.80	5.00	0.4513	-0.3902	0.0744	0.6923
	7.40	2.60	5.00	0.6780	-0.6423	0.1066	1.0856
B	7.40	2.60	5.00	0.6781	-0.6407	0.1071	0.0000
	7.60	2.50	4.90	0.8463	-0.8459	0.1260	0.3069
	7.80	2.40	4.80	1.0458	-1.0753	0.1349	0.6579
	8.00	2.30	4.70	1.2506	-1.3311	0.1459	1.0355
C	8.00	2.30	4.70	1.2454	-1.3322	0.1459	0.0000
	8.10	2.30	4.60	1.2756	-1.3541	0.1438	0.0429
	8.20	2.30	4.50	1.4524	-1.5686	0.1464	0.3630
	8.30	2.30	4.40	1.4931	-1.6068	0.1491	0.4275
	8.40	2.30	4.30	1.6796	-1.8032	0.1371	0.7402
	8.50	2.30	4.20	1.8490	-1.9633	0.1166	1.0102
3	8.50	2.30	4.20	1.8461	-1.9638	0.1150	0.0000
	8.40	2.30	4.30	1.8519	-1.9680	0.1170	0.0083
	8.30	2.30	4.40	1.8461	-1.9652	0.1164	0.0154
	8.20	2.30	4.50	1.8501	-1.9711	0.1156	0.0236
	8.10	2.30	4.60	1.8525	-1.9674	0.1169	0.0254
	8.00	2.30	4.70	1.8479	-1.9706	0.1141	0.0269
C	8.00	2.30	4.70	1.8462	-1.9701	0.1166	0.0000
	7.80	2.40	4.80	1.8508	-1.9702	0.1192	0.0038
	7.60	2.50	4.90	1.8501	-1.9707	0.1166	0.0057
B	7.40	2.60	5.00	1.8461	-1.9760	0.1170	0.0105

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FILE NAME                               : ABC4
NUMBER OF POINTS                       : 39
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0048	0.0045	0.0011	0.0077
	3.00	3.00	3.00	0.0055	0.0012	0.0121	0.0209
	3.50	3.50	3.50	0.0010	0.0080	0.0114	0.0303
	4.00	4.00	4.00	0.0100	0.0103	0.0145	0.0362
	4.50	4.50	4.50	0.0169	0.0143	0.0174	0.0396
	4.75	4.75	4.75	0.0164	0.0166	0.0204	0.0426
	5.00	5.00	5.00	0.0201	0.0177	0.0248	0.0454
A	5.00	5.00	5.00	0.0201	0.0156	0.0200	0.0000
	5.20	4.80	5.00	0.0207	0.0178	0.0243	0.0031
	5.40	4.60	5.00	0.0184	0.0178	0.0266	0.0068
	5.60	4.40	5.00	0.0243	0.0205	0.0246	0.0133
	5.80	4.20	5.00	0.0283	0.0151	0.0234	0.0210
	6.00	4.00	5.00	0.0364	0.0140	0.0254	0.0286
	6.20	3.80	5.00	0.0480	0.0107	0.0255	0.0414
	6.40	3.60	5.00	0.0640	-0.0004	0.0301	0.0636
	6.60	3.40	5.00	0.0901	-0.0120	0.0288	0.0954
	6.80	3.20	5.00	0.1577	-0.0592	0.0383	0.1892
	7.00	3.00	5.00	0.3082	-0.1834	0.0557	0.4134
	7.20	2.80	5.00	0.4974	-0.3401	0.0841	0.6962
	7.40	2.60	5.00	0.7299	-0.5773	0.1167	1.0811
B	7.40	2.60	5.00	0.7305	-0.5799	0.1184	0.0000
	7.60	2.50	4.90	0.9470	-0.8027	0.1399	0.3595
	7.80	2.40	4.80	1.1526	-1.0143	0.1523	0.7004
	8.00	2.30	4.70	1.4319	-1.2994	0.1666	1.1615
C	8.00	2.30	4.70	1.4360	-1.3005	0.1620	0.0000
	8.10	2.40	4.50	1.4359	-1.3033	0.1639	0.0039
	8.20	2.50	4.30	1.4513	-1.3119	0.1656	0.0235
	8.30	2.60	4.10	1.6132	-1.4051	0.1499	0.2371
	8.40	2.70	3.90	1.6468	-1.4119	0.1457	0.2740
	8.50	2.80	3.70	1.8741	-1.5155	0.0501	0.5823
	8.60	2.90	3.50	2.0772	-1.5857	-0.0658	0.8640
	8.65	2.95	3.40	2.0881	-1.5862	-0.0690	0.8762
	8.70	3.00	3.30	2.3061	-1.6442	-0.2024	1.1783
4	8.70	3.00	3.30	2.3076	-1.6454	-0.2008	0.0000
	8.60	2.90	3.50	2.5520	-1.7140	-0.3593	0.3453
	8.40	2.70	3.90	2.5553	-1.7183	-0.3603	0.3516
	8.20	2.50	4.30	2.5595	-1.7262	-0.3613	0.3615
C	8.00	2.30	4.70	2.5660	-1.7572	-0.3567	0.3960

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FILE NAME                               : ABC5
NUMBER OF POINTS                       : 48
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0015	0.0052	-0.0001	0.0058
	3.00	3.00	3.00	0.0024	0.0077	0.0062	0.0089
	3.50	3.50	3.50	0.0044	0.0112	0.0073	0.0109
	4.00	4.00	4.00	0.0115	0.0162	0.0141	0.0128
	4.50	4.50	4.50	0.0117	0.0207	0.0182	0.0167
	4.75	4.75	4.75	0.0163	0.0176	0.0187	0.0229
	5.00	5.00	5.00	0.0181	0.0214	0.0157	0.0285
A	5.00	5.00	5.00	0.0181	0.0208	0.0210	0.0000
	5.20	4.80	5.00	0.0204	0.0198	0.0226	0.0029
	5.40	4.60	5.00	0.0205	0.0198	0.0233	0.0034
	5.60	4.40	5.00	0.0254	0.0171	0.0233	0.0097
	5.80	4.20	5.00	0.0255	0.0204	0.0216	0.0137
	6.00	4.00	5.00	0.0277	0.0156	0.0283	0.0232
	6.20	3.80	5.00	0.0398	0.0129	0.0269	0.0366
	6.40	3.60	5.00	0.0581	-0.0029	0.0350	0.0652
	6.60	3.40	5.00	0.0826	-0.0404	0.0472	0.1187
	6.80	3.20	5.00	0.1577	-0.1270	0.0720	0.2538
	7.00	3.00	5.00	0.2788	-0.2541	0.1036	0.4591
	7.20	2.80	5.00	0.4649	-0.4460	0.1257	0.7687
	7.40	2.60	5.00	0.6998	-0.7012	0.1752	1.1728
B	7.40	2.60	5.00	0.6998	-0.7007	0.1726	0.0000
	7.60	2.50	4.90	0.9158	-0.9180	0.2004	0.3548
	7.80	2.40	4.80	1.1459	-1.1784	0.2213	0.7567
	7.90	2.35	4.75	1.3245	-1.3770	0.2370	1.0656
C	7.90	2.35	4.75	1.3257	-1.3743	0.2375	0.0000
	7.90	2.55	4.55	1.3274	-1.3765	0.2360	0.0034
	7.90	2.75	4.35	1.3319	-1.3732	0.2380	0.0055
	7.90	2.95	4.15	1.3335	-1.3764	0.2387	0.0097
	7.90	3.15	3.95	1.3430	-1.3754	0.2359	0.0199
	7.90	3.35	3.75	1.3580	-1.3765	0.2346	0.0352
	7.90	3.55	3.55	1.3817	-1.3707	0.2168	0.0692
	7.90	3.75	3.35	1.4338	-1.3605	0.1842	0.1383
	7.90	3.95	3.15	1.5296	-1.3488	0.1108	0.2765
	7.90	4.15	2.95	1.6219	-1.3076	0.0086	0.4412
	7.90	4.35	2.75	1.7529	-1.2630	-0.1312	0.6670
	7.90	4.55	2.55	1.8776	-1.1870	-0.3004	0.9243
	7.90	4.65	2.45	2.0039	-1.1337	-0.4526	1.1601
5	7.90	4.65	2.45	2.0020	-1.1342	-0.4589	0.0000
	7.90	4.35	2.75	2.0098	-1.1337	-0.4543	0.0060

FILE NAME (CONTINUED)							ABC5
	7.90	3.95	3.15	2.0079	-1.1346	-0.4587	0.0090
	7.90	3.55	3.55	2.0064	-1.1341	-0.4598	0.0107
	7.90	3.15	3.95	2.0214	-1.1361	-0.4473	0.0258
	7.90	2.75	4.35	2.0895	-1.2194	-0.4254	0.1525
	7.90	2.35	4.75	2.2532	-1.4858	-0.3515	0.5230
C	7.90	2.35	4.75	2.2569	-1.4884	-0.3541	0.0000
	7.60	2.50	4.90	2.2563	-1.4895	-0.3433	0.0110
B	7.40	2.60	5.00	2.2590	-1.4895	-0.3396	0.0141

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FILE NAME                               : ABC6
NUMBER OF POINTS                       : 42
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0010	0.0055	0.0014	0.0041
	3.00	3.00	3.00	0.0010	0.0093	0.0091	0.0104
	3.50	3.50	3.50	0.0027	0.0127	0.0131	0.0124
	4.00	4.00	4.00	0.0066	0.0139	0.0160	0.0147
	4.50	4.50	4.50	0.0119	0.0183	0.0195	0.0163
	4.75	4.75	4.75	0.0114	0.0207	0.0233	0.0199
	5.00	5.00	5.00	0.0132	0.0227	0.0251	0.0202
A	5.00	5.00	5.00	0.0125	0.0228	0.0257	0.0000
	5.20	4.80	5.00	0.0125	0.0249	0.0246	0.0027
	5.40	4.60	5.00	0.0178	0.0181	0.0266	0.0130
	5.60	4.40	5.00	0.0179	0.0180	0.0255	0.0141
	5.80	4.20	5.00	0.0237	0.0202	0.0262	0.0193
	6.00	4.00	5.00	0.0237	0.0169	0.0283	0.0227
	6.20	3.80	5.00	0.0357	0.0176	0.0227	0.0373
	6.40	3.60	5.00	0.0487	0.0095	0.0208	0.0551
	6.60	3.40	5.00	0.0779	0.0004	0.0246	0.0869
	6.80	3.20	5.00	0.1311	-0.0403	0.0232	0.1639
	7.00	3.00	5.00	0.2432	-0.1317	0.0368	0.3301
	7.20	2.80	5.00	0.4221	-0.2949	0.0496	0.6094
	7.40	2.60	5.00	0.6439	-0.5100	0.0709	0.9666
B	7.40	2.60	5.00	0.6447	-0.5115	0.0703	0.0000
	7.60	2.50	4.90	0.8664	-0.7443	0.0856	0.3717
	7.80	2.40	4.80	1.0570	-0.9444	0.0922	0.6909
	8.00	2.30	4.70	1.2869	-1.1725	0.0964	1.0649
C	8.00	2.30	4.70	1.2833	-1.1737	0.0941	0.0000
	7.80	2.70	4.50	1.2905	-1.1742	0.0967	0.0063
	7.60	3.10	4.30	1.2892	-1.1774	0.0943	0.0079
	7.40	3.50	4.10	1.2892	-1.1719	0.0937	0.0134
	7.20	3.90	3.90	1.2915	-1.1590	0.0957	0.0235
	7.00	4.30	3.70	1.2959	-1.1306	0.0852	0.0556
	6.80	4.70	3.50	1.3043	-1.0806	0.0528	0.1228
	6.60	5.10	3.30	1.3103	-0.9828	-0.0111	0.2553
	6.40	5.50	3.10	1.3324	-0.8338	-0.1401	0.4825
	6.20	5.90	2.90	1.3508	-0.6609	-0.2932	0.7489
	6.00	6.30	2.70	1.3640	-0.4746	-0.4694	1.0449
6	6.00	6.30	2.70	1.3630	-0.4745	-0.4698	0.0000
	6.40	5.50	3.10	1.4021	-0.3619	-0.6134	0.2154
	6.80	4.70	3.50	1.4021	-0.3625	-0.6171	0.2187
	7.20	3.90	3.90	1.4194	-0.3711	-0.6092	0.2401
	7.60	3.10	4.30	1.5185	-0.4789	-0.5673	0.4146
C	8.00	2.30	4.70	1.9532	-1.0161	-0.4242	1.2290

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FILE NAME                               :          ABC7
NUMBER OF POINTS                       :             56
APPARATUS USED                         :          CUB TRI
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :          7*7*7
INITIAL CONFINMENT STRESS (PSI)        :             5.0
INITIAL RELATIVE DENSITY DR ( % )      :             72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0027	0.0054	0.0051	0.0076
	3.00	3.00	3.00	-0.0013	0.0090	0.0049	0.0107
	3.50	3.50	3.50	-0.0028	0.0108	0.0116	0.0174
	4.00	4.00	4.00	0.0058	0.0169	0.0141	0.0225
	4.50	4.50	4.50	0.0079	0.0208	0.0243	0.0295
	4.75	4.75	4.75	0.0106	0.0227	0.0299	0.0326
	5.00	5.00	5.00	0.0148	0.0206	0.0315	0.0377
A	5.00	5.00	5.00	0.0136	0.0227	0.0279	0.0000
	5.20	4.80	5.00	0.0182	0.0259	0.0319	0.0011
	5.40	4.60	5.00	0.0160	0.0222	0.0187	0.0108
	5.50	4.40	5.00	0.0196	0.0216	0.0210	0.0143
	5.80	4.20	5.00	0.0214	0.0255	0.0239	0.0160
	6.00	4.00	5.00	0.0295	0.0206	0.0266	0.0267
	6.20	3.80	5.00	0.0383	0.0196	0.0257	0.0359
	6.40	3.60	5.00	0.0542	0.0101	0.0280	0.0566
	6.60	3.40	5.00	0.0907	-0.0043	0.0348	0.0985
	6.80	3.20	5.00	0.1684	-0.0589	0.0436	0.2065
	7.00	3.00	5.00	0.3198	-0.1805	0.0595	0.4294
	7.20	2.80	5.00	0.5243	-0.3639	0.0870	0.7465
	7.40	2.60	5.00	0.7626	-0.6070	0.1173	1.1408
B	7.40	2.60	5.00	0.7684	-0.6081	0.1184	0.0000
	7.60	2.50	4.90	0.9866	-0.8373	0.1428	0.3664
	7.80	2.40	4.80	1.2551	-1.1026	0.1648	0.8027
	7.90	2.35	4.75	1.2766	-1.1293	0.1626	0.8420
	8.00	2.30	4.70	1.5587	-1.4183	0.1766	1.3086
C	8.00	2.30	4.70	1.5581	-1.4183	0.1771	0.0000
	7.75	2.55	4.70	1.5638	-1.4204	0.1793	0.0065
	7.50	2.80	4.70	1.5608	-1.4209	0.1803	0.0098
	7.25	3.05	4.70	1.5586	-1.4237	0.1793	0.0112
	7.00	3.30	4.70	1.5615	-1.4210	0.1783	0.0148
	6.75	3.55	4.70	1.5615	-1.4188	0.1794	0.0167
	6.50	3.80	4.70	1.5634	-1.4145	0.1798	0.0199
	6.25	4.05	4.70	1.5581	-1.4077	0.1814	0.0297
	6.00	4.30	4.70	1.5543	-1.3954	0.1811	0.0436
	5.75	4.55	4.70	1.5484	-1.3595	0.1807	0.0806
	5.50	4.80	4.70	1.5316	-1.3139	0.1811	0.1332
	5.25	5.05	4.70	1.4985	-1.2359	0.1795	0.2268
	5.00	5.30	4.70	1.4525	-1.1428	0.1801	0.3425
	4.75	5.55	4.70	1.3950	-1.0368	0.1795	0.4779

FILE NAME (CONTINUED)				:	ABC7		
	4.50	5.80	4.70	1.3205	-0.9055	0.1790	0.6481
	4.25	6.05	4.70	1.2395	-0.7718	0.1789	0.8252
	4.00	6.30	4.70	1.1359	-0.6082	0.1769	1.0455
7	4.00	6.30	4.70	1.1318	-0.6076	0.1804	0.0000
	4.50	5.80	4.70	1.1348	-0.6054	0.1817	0.0014
	5.00	5.30	4.70	1.1334	-0.6049	0.1774	0.0053
	5.50	4.80	4.70	1.1426	-0.6096	0.1795	0.0167
	6.00	4.30	4.70	1.1488	-0.6112	0.1826	0.0231
	6.50	3.80	4.70	1.1671	-0.6219	0.1842	0.0469
	7.00	3.30	4.70	1.2416	-0.6752	0.1806	0.1521
	7.50	2.80	4.70	1.3843	-0.8310	0.1896	0.3962
	8.00	2.30	4.70	1.8174	-1.3074	0.1999	1.1384
C	8.00	2.30	4.70	1.8145	-1.3072	0.1987	0.0000
	7.80	2.40	4.80	1.8208	-1.3106	0.2023	0.0082
	7.60	2.50	4.90	1.8185	-1.3091	0.2003	0.0118
B	7.40	2.60	5.00	1.8163	-1.3072	0.2040	0.0166

FILE NAME	:	ABC8
NUMBER OF POINTS	:	45
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0062	0.0030	-0.0006	0.0056
	3.00	3.00	3.00	0.0079	0.0062	0.0109	0.0142
	3.50	3.50	3.50	0.0099	0.0117	0.0137	0.0172
	4.00	4.00	4.00	0.0046	0.0140	0.0189	0.0261
	4.50	4.50	4.50	0.0101	0.0181	0.0237	0.0272
	4.75	4.75	4.75	0.0201	0.0210	0.0268	0.0338
	5.00	5.00	5.00	0.0188	0.0204	0.0289	0.0368
A	5.00	5.00	5.00	0.0155	0.0215	0.0286	0.0000
	5.20	4.80	5.00	0.0184	0.0222	0.0261	0.0044
	5.40	4.60	5.00	0.0255	0.0216	0.0256	0.0116
	5.60	4.40	5.00	0.0204	0.0189	0.0297	0.0193
	5.80	4.20	5.00	0.0208	0.0195	0.0319	0.0210
	6.00	4.00	5.00	0.0283	0.0201	0.0284	0.0302
	6.20	3.80	5.00	0.0358	0.0137	0.0279	0.0416
	6.40	3.60	5.00	0.0512	0.0078	0.0306	0.0591
	6.60	3.40	5.00	0.0801	-0.0179	0.0345	0.1037
	6.80	3.20	5.00	0.1346	-0.0739	0.0437	0.1846
	7.00	3.00	5.00	0.3008	-0.2040	0.0628	0.4366
	7.20	2.80	5.00	0.4882	-0.3778	0.0856	0.7318
	7.40	2.60	5.00	0.7657	-0.6470	0.1154	1.1789
B	7.40	2.60	5.00	0.7662	-0.6439	0.1164	0.0000
	7.60	2.50	4.90	0.9444	-0.8263	0.1337	0.2950
	7.80	2.40	4.80	1.2302	-1.1069	0.1529	0.7578
	7.90	2.35	4.75	1.4067	-1.2833	0.1608	1.0460
C	7.90	2.35	4.75	1.4061	-1.2888	0.1612	0.0000
	7.50	2.55	4.95	1.4101	-1.2937	0.1636	0.0077
	7.10	2.75	5.15	1.4061	-1.2969	0.1650	0.0125
	6.70	2.95	5.35	1.4097	-1.2986	0.1690	0.0177
	6.30	3.15	5.55	1.4022	-1.2980	0.1744	0.0283
	5.90	3.35	5.75	1.4072	-1.2915	0.1785	0.0302
	5.50	3.55	5.95	1.3982	-1.2920	0.1833	0.0416
	5.10	3.75	6.15	1.3821	-1.2798	0.2062	0.0745
	4.70	3.95	6.35	1.3429	-1.2542	0.2640	0.1552
	4.30	4.15	6.55	1.2800	-1.2018	0.3365	0.2745
	3.90	4.35	6.75	1.1532	-1.1312	0.4452	0.4809
	3.50	4.55	6.95	0.9328	-1.0209	0.6241	0.8295
	3.30	4.65	7.05	0.8060	-0.9727	0.7338	1.0300
8	3.30	4.65	7.05	0.8035	-0.9770	0.7342	0.0000
	3.90	4.35	6.75	0.8024	-0.9717	0.7358	0.0052
	4.70	3.95	6.35	0.8111	-0.9737	0.7370	0.0142
	5.50	3.55	5.95	0.8214	-0.9769	0.7468	0.0266
	6.30	3.15	5.55	0.8629	-0.9911	0.7463	0.0741
	7.10	2.75	5.15	1.0291	-1.1132	0.7365	0.3113
C	7.90	2.35	4.75	1.5041	-1.5291	0.7111	1.0406

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FILE NAME                               : AEC9
NUMBER OF POINTS                       : 49
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0008	0.0077	-0.0018	0.0080
	3.00	3.00	3.00	0.0035	0.0130	0.0004	0.0107
	3.50	3.50	3.50	0.0062	0.0082	0.0124	0.0244
	4.00	4.00	4.00	0.0108	0.0162	0.0169	0.0276
	4.50	4.50	4.50	0.0077	0.0175	0.0160	0.0318
	4.75	4.75	4.75	0.0106	0.0188	0.0191	0.0334
	5.00	5.00	5.00	0.0180	0.0233	0.0215	0.0375
A	5.00	5.00	5.00	0.0128	0.0194	0.0241	0.0000
	5.20	4.80	5.00	0.0156	0.0194	0.0211	0.0047
	5.40	4.60	5.00	0.0170	0.0178	0.0240	0.0084
	5.60	4.40	5.00	0.0204	0.0174	0.0254	0.0116
	5.80	4.20	5.00	0.0226	0.0180	0.0229	0.0156
	6.00	4.00	5.00	0.0263	0.0136	0.0252	0.0225
	6.20	3.80	5.00	0.0338	0.0141	0.0275	0.0285
	6.40	3.60	5.00	0.0438	0.0116	0.0287	0.0390
	6.80	3.20	5.00	0.0955	-0.0159	0.0258	0.1052
	7.00	3.00	5.00	0.1646	-0.0623	0.0302	0.1997
	7.20	2.80	5.00	0.2750	-0.1483	0.0333	0.3602
	7.40	2.60	5.00	0.4883	-0.3393	0.0442	0.6904
	7.60	2.40	5.00	0.7016	-0.5544	0.0596	1.0405
B	7.60	2.40	5.00	0.7033	-0.5571	0.0577	0.0000
	7.80	2.30	4.90	0.9129	-0.7646	0.0727	0.3408
	8.00	2.20	4.80	1.1160	-0.9668	0.0781	0.6719
	8.20	2.10	4.70	1.4128	-1.2743	0.0821	1.1653
C	8.20	2.10	4.70	1.4116	-1.2734	0.0816	0.0000
	7.90	2.10	5.00	1.4150	-1.2813	0.0858	0.0111
	7.60	2.10	5.30	1.4127	-1.2823	0.0914	0.0179
	7.30	2.10	5.60	1.4131	-1.2834	0.0949	0.0218
	7.00	2.10	5.90	1.4139	-1.2991	0.1059	0.0437
	6.70	2.10	6.20	1.4146	-1.3018	0.1088	0.0484
	6.40	2.10	6.50	1.4116	-1.3186	0.1236	0.0742
	6.10	2.10	6.80	1.4071	-1.3626	0.1646	0.1437
	5.80	2.10	7.10	1.4058	-1.4141	0.2348	0.2435
	5.50	2.10	7.40	1.3935	-1.4900	0.3244	0.3798
	5.20	2.10	7.70	1.3745	-1.6341	0.5043	0.6467
	4.90	2.10	8.00	1.3508	-1.7333	0.6456	0.8476
	4.70	2.10	8.20	1.3070	-1.8988	0.8679	1.1714
9	4.70	2.10	8.20	1.3081	-1.8999	0.8659	0.0000
	5.20	2.10	7.70	1.3975	-1.8999	0.8674	0.0017

FILE NAME (CONTINUED)							ABC9
	5.80	2.10	7.10	1.3143	-1.9060	0.8730	0.0135
	6.40	2.10	6.50	1.3178	-1.9087	0.8753	0.0188
	7.00	2.10	5.90	1.3445	-1.9193	0.8658	0.0535
	7.60	2.10	5.30	1.4117	-1.9684	0.8463	0.1521
	8.20	2.10	4.70	1.6705	-2.1487	0.7967	0.5203
C	8.20	2.10	4.70	1.6745	-2.1493	0.7951	0.0000
	8.00	2.20	4.80	1.6744	-2.1546	0.7968	0.0059
	7.80	2.30	4.90	1.6749	-2.1557	0.7956	0.0074
B	7.60	2.40	5.00	1.6767	-2.1497	0.7988	0.0110

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FILE NAME                               : ABC10
NUMBER OF POINTS                       : 42
APPARATUS USED                        : CUB TRI
TYPE OF TEST                          : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.) : 7*7*7
INITIAL CONFINEMENT STRESS (PSI)      : 5.0
INITIAL RELATIVE DENSITY DP ( % )    : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0052	0.0066	0.0074	0.0019
	3.00	3.00	3.00	0.0117	0.0079	0.0139	0.0068
	3.50	3.50	3.50	0.0065	0.0115	0.0175	0.0151
	4.00	4.00	4.00	0.0129	0.0181	0.0202	0.0187
	4.50	4.50	4.50	0.0164	0.0209	0.0262	0.0215
	4.80	4.80	4.80	0.0193	0.0227	0.0312	0.0241
	5.00	5.00	5.00	0.0173	0.0176	0.0320	0.0290
A	5.00	5.00	5.00	0.0169	0.0169	0.0295	0.0000
	5.20	4.80	5.00	0.0174	0.0171	0.0301	0.0004
	5.40	4.60	5.00	0.0230	0.0149	0.0316	0.0067
	5.60	4.40	5.00	0.0226	0.0159	0.0280	0.0106
	5.80	4.20	5.00	0.0237	0.0175	0.0331	0.0142
	6.00	4.00	5.00	0.0289	0.0153	0.0318	0.0207
	6.20	3.80	5.00	0.0369	0.0165	0.0309	0.0284
	6.40	3.60	5.00	0.0547	0.0101	0.0346	0.0482
	6.60	3.40	5.00	0.0907	-0.0084	0.0366	0.0932
	6.80	3.20	5.00	0.1716	-0.0751	0.0500	0.2138
	7.00	3.00	5.00	0.3179	-0.1889	0.0651	0.4262
	7.20	2.80	5.00	0.5138	-0.3597	0.0836	0.7256
	7.40	2.60	5.00	0.7360	-0.5725	0.1134	1.0816
B	7.40	2.60	5.00	0.7361	-0.5747	0.1154	0.0000
	7.60	2.50	4.90	0.9565	-0.7802	0.1350	0.3480
	7.80	2.40	4.80	1.1779	-0.9967	0.1497	0.7057
	8.00	2.30	4.70	1.4479	-1.2665	0.1563	1.1465
C	8.00	2.30	4.70	1.4515	-1.2665	0.1586	0.0000
	7.90	2.20	4.90	1.4519	-1.2767	0.1565	0.0091
	7.80	2.10	5.10	1.7028	-1.5689	0.1940	0.4559
	7.70	2.00	5.30	1.7050	-1.5811	0.2018	0.4727
	7.60	1.90	5.50	1.8684	-1.8553	0.2725	0.8493
	7.60	1.90	5.60	1.8751	-1.8673	0.2782	0.8665
	7.50	1.80	5.70	1.9607	-2.0345	0.3350	1.0924
10	7.50	1.80	5.70	1.9658	-2.0384	0.3361	0.0000
	7.60	1.90	5.50	1.9677	-2.0422	0.3388	0.0057
	7.70	2.00	5.30	1.9682	-2.0426	0.3384	0.0066
	7.80	2.10	5.10	1.9728	-2.0416	0.3365	0.0118
	7.90	2.20	4.90	1.9732	-2.0410	0.3374	0.0121
	8.00	2.30	4.70	1.9789	-2.0426	0.3393	0.0181
C	8.00	2.30	4.70	1.9808	-2.0421	0.3410	0.0000
	7.60	2.50	4.90	1.9785	-2.0432	0.3410	0.0023
B	7.40	2.60	5.00	1.9802	-2.0426	0.3387	0.0057

FILE NAME	:	ABC11
NUMBER OF POINTS	:	39
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0008	0.0009	-0.0067	0.0071
	3.00	3.00	3.00	0.0017	0.0057	0.0049	0.0159
	3.50	3.50	3.50	0.0072	0.0112	0.0096	0.0166
	4.00	4.00	4.00	0.0092	0.0146	0.0141	0.0186
	4.50	4.50	4.50	0.0127	0.0159	0.0185	0.0212
	4.75	4.75	4.75	0.0127	0.0198	0.0249	0.0264
	5.00	5.00	5.00	0.0152	0.0183	0.0271	0.0301
A	5.00	5.00	5.00	0.0102	0.0183	0.0279	0.0000
	5.20	4.80	5.00	0.0160	0.0177	0.0282	0.0056
	5.40	4.60	5.00	0.0154	0.0188	0.0290	0.0071
	5.60	4.40	5.00	0.0172	0.0156	0.0284	0.0112
	5.80	4.20	5.00	0.0202	0.0204	0.0285	0.0151
	6.00	4.00	5.00	0.0277	0.0166	0.0258	0.0253
	6.20	3.80	5.00	0.0359	0.0157	0.0324	0.0333
	6.40	3.60	5.00	0.0497	0.0124	0.0294	0.0493
	6.60	3.40	5.00	0.0903	-0.0134	0.0333	0.1036
	6.80	3.20	5.00	0.1693	-0.0743	0.0429	0.2178
	7.00	3.00	5.00	0.3378	-0.2051	0.0595	0.4622
	7.20	2.80	5.00	0.5564	-0.4050	0.0911	0.8045
	7.40	2.60	5.00	0.8062	-0.6513	0.1182	1.2104
B	7.40	2.60	5.00	0.8127	-0.6518	0.1218	0.0000
	7.60	2.50	4.90	1.0339	-0.8774	0.1405	0.3653
	7.80	2.40	4.80	1.2739	-1.1268	0.1594	0.7656
	7.90	2.35	4.75	1.4399	-1.2930	0.1712	1.0371
C	7.90	2.35	4.75	1.4399	-1.2924	0.1697	0.0000
	7.90	2.30	4.80	1.4456	-1.3005	0.1723	0.0119
	7.90	2.25	4.85	1.5886	-1.4592	0.1879	0.2592
	7.90	2.20	4.90	1.6299	-1.5144	0.1910	0.3385
	7.90	2.10	5.00	1.8123	-1.7211	0.2094	0.6575
	7.90	2.00	5.10	1.9829	-1.9404	0.2362	0.9795
11	7.90	2.00	5.10	1.9789	-1.9420	0.2361	0.0000
	7.90	2.10	5.00	1.9847	-1.9414	0.2371	0.0047
	7.90	2.20	4.90	1.9829	-1.9425	0.2368	0.0059
	7.90	2.30	4.80	1.9858	-1.9413	0.2366	0.0084
	7.90	2.35	4.75	1.9847	-1.9409	0.2408	0.0128
C	7.90	2.35	4.75	1.9859	-1.9419	0.2405	0.0000
	7.60	2.50	4.90	1.9886	-1.9441	0.2388	0.0044
B	7.40	2.60	5.00	1.9858	-1.9478	0.2377	0.0065

FILE NAME : AEC12
 NUMBER OF POINTS : 38
 APPARATUS USED : CUB TRI
 TYPE OF TEST : DRAINED
 INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
 INITIAL CONFINMENT STRESS (PSI) : 5.0
 INITIAL RELATIVE DENSITY DR (%) : 72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0041	0.0064	-0.0064	0.0111
	3.00	3.00	3.00	0.0062	0.0068	0.0023	0.0182
	3.50	3.50	3.50	0.0047	0.0056	0.0081	0.0250
	4.00	4.00	4.00	0.0101	0.0091	0.0107	0.0274
	4.50	4.50	4.50	0.0095	0.0123	0.0188	0.0346
	4.75	4.75	4.75	0.0161	0.0168	0.0204	0.0387
	5.00	5.00	5.00	0.0155	0.0170	0.0211	0.0398
A	5.00	5.00	5.00	0.0196	0.0196	0.0220	0.0000
	5.20	4.80	5.00	0.0160	0.0121	0.0259	0.0095
	5.40	4.60	5.00	0.0195	0.0169	0.0249	0.0145
	5.60	4.40	5.00	0.0202	0.0159	0.0232	0.0165
	5.80	4.20	5.00	0.0271	0.0163	0.0254	0.0221
	6.00	4.00	5.00	0.0342	0.0165	0.0216	0.0310
	6.20	3.80	5.00	0.0411	0.0143	0.0241	0.0384
	6.40	3.60	5.00	0.0486	0.0063	0.0257	0.0513
	6.60	3.40	5.00	0.0674	0.0060	0.0318	0.0671
	6.80	3.20	5.00	0.1162	-0.0413	0.0361	0.1457
	7.00	3.00	5.00	0.1817	-0.1053	0.0452	0.2517
	7.20	2.80	5.00	0.3534	-0.2549	0.0585	0.5140
	7.40	2.60	5.00	0.5689	-0.4670	0.0915	0.8645
	7.50	2.50	5.00	0.6808	-0.5822	0.1015	1.0302
B	7.50	2.50	5.00	0.6751	-0.5822	0.1025	0.0000
	7.70	2.40	4.90	0.8587	-0.7712	0.1203	0.3053
	7.90	2.30	4.90	1.0451	-0.9435	0.1448	0.5236
	8.10	2.20	4.70	1.2839	-1.2354	0.1562	1.0330
C	8.10	2.20	4.70	1.2874	-1.2375	0.1571	0.0000
	8.15	2.10	4.75	1.4627	-1.4222	0.1710	0.2944
	8.20	2.00	4.80	1.6401	-1.6465	0.1810	0.6239
	8.25	1.90	4.85	1.8271	-1.8803	0.2075	0.9707
12	8.25	1.90	4.85	1.8224	-1.8841	0.2060	0.0000
	8.20	2.00	4.80	1.6281	-1.8814	0.2075	0.0035
	8.15	2.10	4.75	1.8281	-1.8825	0.2060	0.0048
	8.10	2.20	4.70	1.8285	-1.8829	0.2055	0.0056
C	8.10	2.20	4.70	1.8298	-1.8851	0.2066	0.0000
	7.90	2.30	4.80	1.8298	-1.8889	0.2039	0.0032
	7.70	2.40	4.90	1.8280	-1.8921	0.2098	0.0112
B	7.50	2.50	5.00	1.8319	1.8915	0.2112	0.0140

FILE NAME : AC11
 NUMBER OF POINTS : 49
 APPARATUS USED : CUB TRI
 TYPE OF TEST : DRAINED
 INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
 INITIAL CONFINMENT STRESS (PSI) : 5.0
 INITIAL RELATIVE DENSITY DR (%) : 72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0036	0.0032	0.0004	0.0029
	3.00	3.00	3.00	0.0112	0.0101	0.0118	0.0068
	3.50	3.50	3.50	0.0165	0.0171	0.0161	0.0090
	4.00	4.00	4.00	0.0165	0.0182	0.0176	0.0103
	4.50	4.50	4.50	0.0205	0.0269	0.0245	0.0142
	4.75	4.75	4.75	0.0235	0.0260	0.0295	0.0190
	5.00	5.00	5.00	0.0268	0.0280	0.0250	0.0259
A	5.00	5.00	5.00	0.0251	0.0298	0.0268	0.0000
	5.20	4.80	5.00	0.0261	0.0325	0.0282	0.0016
	5.40	4.60	5.00	0.0320	0.0308	0.0317	0.0079
	5.60	4.40	5.00	0.0344	0.0293	0.0299	0.0117
	5.80	4.20	5.00	0.0424	0.0286	0.0280	0.0205
	6.00	4.00	5.00	0.0478	0.0298	0.0226	0.0294
	6.20	3.80	5.00	0.0580	0.0238	0.0239	0.0427
	6.40	3.60	5.00	0.0726	0.0193	0.0245	0.0588
	6.60	3.40	5.00	0.1065	-0.0088	0.0195	0.1100
	6.80	3.20	5.00	0.1661	-0.0636	0.0196	0.2034
	7.00	3.00	5.00	0.2911	-0.1871	0.0202	0.4064
	7.20	2.80	5.00	0.5101	-0.3743	0.0324	0.7380
	7.40	2.60	5.00	0.7475	-0.6243	0.0440	1.1363
	7.60	2.40	5.00	1.0388	-0.9351	0.0659	1.6298
	7.80	2.20	5.00	1.4173	-1.3826	0.1053	2.3069
C	7.80	2.20	5.00	1.4209	-1.3827	0.1038	0.0000
	7.60	2.40	5.00	1.4200	-1.3843	0.1076	0.0048
	7.40	2.60	5.00	1.4207	-1.3865	0.1065	0.0072
	7.20	2.80	5.00	1.4222	-1.3832	0.1066	0.0090
	7.00	3.00	5.00	1.4247	-1.3861	0.1067	0.0142
	6.80	3.20	5.00	1.4240	-1.3827	0.1067	0.0177
	6.60	3.40	5.00	1.4246	-1.3833	0.1029	0.0215
I	6.60	3.40	5.00	1.4219	-1.3875	0.1078	0.0000
	6.80	3.20	5.00	1.4223	-1.3823	0.1084	0.0044
	7.00	3.00	5.00	1.4253	-1.3839	0.1039	0.0081
	7.20	2.80	5.00	1.4221	-1.3851	0.1007	0.0098
	7.40	2.60	5.00	1.4243	-1.3855	0.1114	0.0140
	7.60	2.40	5.00	1.4253	-1.3843	0.1082	0.0181
	7.80	2.20	5.00	1.4322	-1.3978	0.1060	0.0348
	8.00	2.00	5.00	1.9312	-2.0121	0.1520	0.9489
	8.20	1.80	5.00	2.5733	-2.8796	0.2220	2.1935
1	8.20	1.80	5.00	2.5807	-2.8871	0.2223	0.0000

FILE NAME (CONTINUED)				:	ACI1		
	7.80	2.20	5.00	2.5813	-2.8865	0.2233	0.0004
	7.40	2.60	5.00	2.5823	-2.8828	0.2233	0.0035
	7.00	3.00	5.00	2.5802	-2.8849	0.2264	0.0085
I	6.60	3.40	5.00	2.5779	-2.8731	0.2255	0.0212
	6.20	3.80	5.00	2.5737	-2.8406	0.2280	0.0531
	5.80	4.20	5.00	2.5572	-2.7362	0.2226	0.1622
	5.40	4.60	5.00	2.4888	-2.5670	0.2260	0.3612
	5.00	5.00	5.00	2.3818	-2.3237	0.2290	0.6538
A	5.00	5.00	5.00	2.3759	-2.3248	0.2248	0.0000

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FILE NAME                               : ACI2
NUMBER OF POINTS                       : 48
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0104	0.0087	0.0023	0.0070
	3.00	3.00	3.00	0.0072	0.0092	0.0214	0.0264
	3.50	3.50	3.50	0.0187	0.0175	0.0262	0.0319
	4.00	4.00	4.00	0.0225	0.0162	0.0279	0.0360
	4.50	4.50	4.50	0.0244	0.0187	0.0391	0.0445
	5.00	5.00	5.00	0.0270	0.0241	0.0390	0.0490
A	5.00	5.00	5.00	0.0291	0.0209	0.0374	0.0000
	5.20	4.80	5.00	0.0317	0.0215	0.0386	0.0017
	5.40	4.60	5.00	0.0371	0.0210	0.0393	0.0068
	5.60	4.40	5.00	0.0376	0.0247	0.0410	0.0094
	5.80	4.20	5.00	0.0395	0.0214	0.0386	0.0139
	6.00	4.00	5.00	0.0486	0.0187	0.0407	0.0237
	6.20	3.80	5.00	0.0577	0.0204	0.0418	0.0310
	6.40	3.60	5.00	0.0722	0.0130	0.0374	0.0504
	6.60	3.40	5.00	0.0977	0.0019	0.0395	0.0806
	6.80	3.20	5.00	0.1364	-0.0579	0.0493	0.2019
	7.00	3.00	5.00	0.3017	-0.1461	0.0603	0.3681
	7.20	2.80	5.00	0.5101	-0.3495	0.0904	0.7054
	7.40	2.60	5.00	0.7522	-0.5757	0.1117	1.0879
	7.60	2.40	5.00	1.0551	-0.9005	0.1464	1.6023
	7.80	2.20	5.00	1.3802	-1.2636	0.1720	2.1657
C	7.80	2.20	5.00	1.3825	-1.2702	0.1688	0.0000
	7.60	2.40	5.00	1.3871	-1.2621	0.1714	0.0045
	7.40	2.60	5.00	1.3871	-1.2659	0.1756	0.0109
	7.20	2.80	5.00	1.3860	-1.2647	0.1721	0.0147
	7.00	3.00	5.00	1.3847	-1.2669	0.1741	0.0184
	6.80	3.20	5.00	1.3854	-1.2615	0.1725	0.0242
	6.60	3.40	5.00	1.3847	-1.2610	0.1735	0.0258
I	6.60	3.40	5.00	1.3807	-1.2632	0.1760	0.0000
	6.90	3.25	4.85	1.3890	-1.2632	0.1772	0.0072
	7.20	3.10	4.70	1.3915	-1.2638	0.1759	0.0106
	7.50	2.95	4.55	1.3917	-1.2633	0.1751	0.0117
	7.80	2.80	4.40	1.4024	-1.2604	0.1807	0.0182
	8.10	2.65	4.25	1.4322	-1.2749	0.1832	0.0547
	8.40	2.50	4.10	1.7763	-1.4907	0.1173	0.5281
	8.70	2.35	3.95	2.3417	-1.9344	-0.0046	1.3698
	8.90	2.25	3.85	2.7761	-2.3091	-0.1093	2.0425
2	8.90	2.25	3.85	2.7721	-2.3070	-0.1121	0.0000
	8.40	2.50	4.10	2.7817	-2.3112	-0.1098	0.0113

FILE NAME (CONTINUED)				:	ACI2		
	7.80	2.80	4.40	2.7766	-2.3107	-0.1152	0.0167
	7.20	3.10	4.70	2.7746	-2.3113	-0.1127	0.0205
	6.60	3.40	5.00	2.7767	-2.3113	-0.1115	0.0223
I	6.60	3.40	5.00	2.7785	-2.3113	-0.1155	0.0000
	6.20	3.80	5.00	2.7667	-2.3008	-0.1108	0.0189
	5.80	4.20	5.00	2.7421	-2.2581	-0.1063	0.0740
	5.40	4.60	5.00	2.6873	-2.1371	-0.0971	0.2194
A	5.00	5.00	5.00	2.5772	-1.9574	-0.0735	0.4562

FILE NAME	:	ACI3
NUMBER OF POINTS	:	53
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0096	0.0054	0.0067	0.0035
	3.00	3.00	3.00	0.0151	0.0091	0.0150	0.0072
	3.50	3.50	3.50	0.0207	0.0093	0.0160	0.0120
	4.00	4.00	4.00	0.0263	0.0136	0.0229	0.0141
	4.50	4.50	4.50	0.0276	0.0163	0.0273	0.0167
	5.00	5.00	5.00	0.0296	0.0193	0.0355	0.0221
A	5.00	5.00	5.00	0.0301	0.0171	0.0324	0.0000
	5.20	4.80	5.00	0.0312	0.0193	0.0325	0.0018
	5.40	4.60	5.00	0.0366	0.0192	0.0326	0.0068
	5.60	4.40	5.00	0.0409	0.0193	0.0328	0.0107
	5.80	4.20	5.00	0.0454	0.0182	0.0297	0.0171
	6.00	4.00	5.00	0.0442	0.0193	0.0314	0.0196
	6.20	3.80	5.00	0.0583	0.0172	0.0357	0.0329
	6.40	3.60	5.00	0.0801	0.0099	0.0337	0.0581
	6.60	3.40	5.00	0.1199	-0.0252	0.0407	0.1195
	6.80	3.20	5.00	0.2177	-0.1008	0.0519	0.2611
	7.00	3.00	5.00	0.3956	-0.2471	0.0811	0.5261
	7.20	2.80	5.00	0.6138	-0.4354	0.1023	0.8581
	7.40	2.60	5.00	0.8897	-0.6987	0.1401	1.2994
	7.60	2.40	5.00	1.1327	-0.9529	0.1614	1.7061
	7.80	2.20	5.00	1.5779	-1.4207	0.2040	2.4533
C	7.80	2.20	5.00	1.5767	-1.4245	0.2063	0.0000
	7.60	2.40	5.00	1.5854	-1.4286	0.2040	0.0114
	7.40	2.60	5.00	1.5843	-1.4272	0.2054	0.0138
	7.20	2.80	5.00	1.5887	-1.4321	0.2047	0.0214
	7.00	3.00	5.00	1.5853	-1.4304	0.2060	0.0260
	6.80	3.20	5.00	1.5854	-1.4293	0.2043	0.0283
	6.60	3.40	5.00	1.5860	-1.4283	0.2067	0.0298
I	6.60	3.40	5.00	1.5831	-1.4304	0.2070	0.0000
	6.80	3.40	4.80	1.5842	-1.4320	0.2062	0.0022
	7.00	3.40	4.60	1.5824	-1.4299	0.2063	0.0055
	7.20	3.40	4.40	1.5858	-1.4299	0.2053	0.0094
	7.40	3.40	4.20	1.5910	-1.4255	0.2088	0.0107
	7.60	3.40	4.00	1.6049	-1.4257	0.2053	0.0258
	7.80	3.40	3.80	1.6546	-1.4169	0.1811	0.0863
	8.00	3.40	3.60	1.8043	-1.4093	0.0903	0.2837
	8.20	3.40	3.40	2.0095	-1.4066	-0.0660	0.5796
	8.40	3.40	3.20	2.3096	-1.4167	-0.2825	1.0043
	8.60	3.40	3.00	2.6716	-1.4486	-0.5715	1.5397

FILE NAME (CONTINUED)				:	ACI3		
3	8.80	3.40	2.80	3.0786	-1.4961	-0.8894	2.1379
	8.80	3.40	2.80	3.0751	-1.4962	-0.8853	0.0000
I	8.40	3.40	3.20	3.0778	-1.4994	-0.8888	0.0057
	8.00	3.40	3.60	3.0803	-1.4990	-0.8954	0.0135
	7.60	3.40	4.00	3.0768	-1.4972	-0.8972	0.0179
	7.20	3.40	4.40	3.0804	-1.4983	-0.8964	0.0218
	6.80	3.40	4.80	3.0768	-1.5031	-0.8870	0.0346
	6.60	3.40	5.00	3.0790	-1.5021	-0.8689	0.0502
	6.60	3.40	5.00	3.0785	-1.5015	-0.8678	0.0000
A	6.20	3.80	5.00	3.0758	-1.5030	-0.8526	0.0163
	5.80	4.20	5.00	3.0587	-1.5020	-0.8194	0.0579
	5.40	4.60	5.00	3.0158	-1.4821	-0.7626	0.1402
	5.00	5.00	5.00	2.9360	-1.4133	-0.6967	0.2791

FILE NAME	:	AC14
NUMBER OF POINTS	:	54
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0057	0.0000	0.0140	0.0115
	3.00	3.00	3.00	0.0090	0.0126	0.0167	0.0205
	3.50	3.50	3.50	0.0155	0.0173	0.0216	0.0221
	4.00	4.00	4.00	0.0180	0.0265	0.0268	0.0276
	4.50	4.50	4.50	0.0256	0.0234	0.0301	0.0363
	4.75	4.75	4.75	0.0292	0.0235	0.0345	0.0400
	5.00	5.00	5.00	0.0287	0.0268	0.0337	0.0437
A	5.00	5.00	5.00	0.0293	0.0289	0.0338	0.0000
	5.20	4.80	5.00	0.0275	0.0258	0.0337	0.0024
	5.40	4.60	5.00	0.0311	0.0284	0.0344	0.0048
	5.60	4.40	5.00	0.0356	0.0285	0.0363	0.0084
	5.80	4.20	5.00	0.0368	0.0263	0.0360	0.0112
	6.00	4.00	5.00	0.0477	0.0236	0.0371	0.0226
	6.20	3.80	5.00	0.0594	0.0230	0.0405	0.0329
	6.40	3.60	5.00	0.0749	0.0167	0.0383	0.0518
	6.60	3.40	5.00	0.1214	-0.0166	0.0438	0.1169
	6.80	3.20	5.00	0.2573	-0.1167	0.0584	0.3096
	7.00	3.00	5.00	0.4377	-0.2716	0.0780	0.5835
	7.20	2.80	5.00	0.6371	-0.4879	0.1057	0.9639
	7.40	2.60	5.00	0.9545	-0.7366	0.1376	1.3858
	7.60	2.40	5.00	1.2619	-1.0388	0.1621	1.8840
	7.70	2.30	5.00	1.5187	-1.3174	0.1912	2.3227
C	7.70	2.30	5.00	1.5235	-1.3152	0.1902	0.0000
	7.60	2.40	5.00	1.5244	-1.3158	0.1892	0.0017
	7.40	2.60	5.00	1.5268	-1.3169	0.1892	0.0045
	7.20	2.80	5.00	1.5290	-1.3143	0.1868	0.0072
	7.00	3.00	5.00	1.5245	-1.3143	0.1911	0.0129
	6.80	3.20	5.00	1.5228	-1.3147	0.1934	0.0163
	6.60	3.40	5.00	1.5257	-1.3169	0.1943	0.0204
I	6.60	3.40	5.00	1.5256	-1.3163	0.1939	0.0000
	6.80	3.60	4.60	1.5257	-1.3159	0.1939	0.0004
	7.00	3.80	4.20	1.5262	-1.3135	0.1926	0.0034
	7.20	4.00	3.80	1.5498	-1.2971	0.1789	0.0357
	7.40	4.20	3.40	1.6406	-1.2263	0.0699	0.2154
	7.50	4.30	3.20	1.7531	-1.1677	-0.0440	0.4085
	7.60	4.40	3.00	1.9098	-1.0810	-0.2195	0.6944
	7.70	4.50	2.80	2.1190	-1.0090	-0.4671	1.0772
	7.80	4.60	2.60	2.3398	-0.9245	-0.7259	1.4808
	7.90	4.70	2.40	2.5492	-0.8479	-0.9861	1.8761

FILE NAME (CONTINUED)				:	ACI4		
4	8.00	4.80	2.20	2.8500	-0.7357	-1.3625	2.4469
	8.00	4.80	2.20	2.8567	-0.7357	-1.3715	0.0000
I	7.80	4.60	2.60	2.8561	-0.7341	-1.3731	0.0026
	7.60	4.40	3.00	2.8601	-0.7324	-1.3766	0.0089
	7.40	4.20	3.40	2.8573	-0.7361	-1.3788	0.0102
	7.20	4.00	3.80	2.8543	-0.7323	-1.3772	0.0158
	7.00	3.80	4.20	2.8583	-0.7350	-1.3697	0.0243
	6.80	3.60	4.60	2.8585	-0.7365	-1.3462	0.0471
	6.60	3.40	5.00	2.8533	-0.7609	-1.2613	0.1423
	6.60	3.40	5.00	2.8549	-0.7636	-1.2617	0.0000
	6.20	3.80	5.00	2.8561	-0.7701	-1.2367	0.0267
A	5.80	4.20	5.00	2.8481	-0.7669	-1.2285	0.0402
	5.40	4.60	5.00	2.8183	-0.7687	-1.1798	0.1051
	5.00	5.00	5.00	2.7659	-0.7317	-1.1039	0.2126

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FILE NAME                               : ACIS
NUMBER OF POINTS                       : 53
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0076	0.0078	0.0014	0.0060
	3.00	3.00	3.00	0.0115	0.0145	0.0152	0.0143
	3.50	3.50	3.50	0.0152	0.0201	0.0233	0.0179
	4.00	4.00	4.00	0.0223	0.0232	0.0283	0.0211
	4.50	4.50	4.50	0.0236	0.0190	0.0328	0.0283
	4.75	4.75	4.75	0.0248	0.0267	0.0420	0.0352
	5.00	5.00	5.00	0.0254	0.0236	0.0386	0.0389
A	5.00	5.00	5.00	0.0259	0.0247	0.0386	0.0000
	5.20	4.80	5.00	0.0268	0.0268	0.0355	0.0044
	5.40	4.60	5.00	0.0292	0.0263	0.0339	0.0078
	5.60	4.40	5.00	0.0315	0.0279	0.0393	0.0110
	5.80	4.20	5.00	0.0345	0.0274	0.0406	0.0139
	6.00	4.00	5.00	0.0418	0.0257	0.0346	0.0249
	6.20	3.80	5.00	0.0530	0.0191	0.0418	0.0401
	6.40	3.60	5.00	0.0744	0.0042	0.0407	0.0701
	6.60	3.40	5.00	0.1109	-0.0162	0.0430	0.1168
	6.80	3.20	5.00	0.1919	-0.0810	0.0511	0.2359
	7.00	3.00	5.00	0.3494	-0.1982	0.0720	0.4602
	7.20	2.80	5.00	0.5643	-0.3997	0.1037	0.8009
	7.40	2.60	5.00	0.8000	-0.6174	0.1322	1.1716
	7.60	2.40	5.00	1.1384	-0.9757	0.1879	1.7438
	7.70	2.30	5.00	1.3467	-1.1941	0.2154	2.0937
C	7.70	2.30	5.00	1.3511	-1.1920	0.2146	0.0000
	7.60	2.40	5.00	1.3535	-1.1931	0.2161	0.0030
	7.40	2.60	5.00	1.3530	-1.1942	0.2182	0.0058
	7.20	2.80	5.00	1.3511	-1.1930	0.2151	0.0094
	7.00	3.00	5.00	1.3526	-1.1925	0.2171	0.0107
	6.80	3.20	5.00	1.3547	-1.1936	0.2150	0.0143
	6.60	3.40	5.00	1.3564	-1.1947	0.2161	0.0167
I	6.60	3.40	5.00	1.3496	-1.1931	0.2150	0.0000
	6.60	3.70	4.70	1.3575	-1.1919	0.2171	0.0060
	6.60	4.00	4.40	1.3553	-1.1854	0.2171	0.0134
	6.60	4.30	4.10	1.3513	-1.1698	0.2147	0.0312
	6.60	4.60	3.80	1.3545	-1.1287	0.2052	0.0742
	6.60	4.90	3.50	1.3618	-1.0387	0.1486	0.1942
	6.60	5.20	3.20	1.4078	-0.9910	0.0284	0.4150
	6.60	5.50	2.90	1.4735	-0.6693	-0.1680	0.7600
	6.60	5.80	2.60	1.5685	-0.4642	-0.4127	1.1429
	6.60	6.10	2.30	1.6836	-0.1553	-0.7630	1.6962

FILE NAME (CONTINUED)		:	ACI5				
S	6.60	6.30	2.10	1.8113	0.0915	-1.1041	2.2038
	6.60	6.30	2.10	1.8118	0.0926	-1.1088	0.0000
I	6.60	6.10	2.30	1.8169	0.0931	-1.1062	0.0037
	6.60	5.80	2.60	1.8205	0.0931	-1.1052	0.0067
	6.60	5.50	2.90	1.8200	0.0947	-1.1050	0.0084
	6.60	5.20	3.20	1.8222	0.0920	-1.1058	0.0125
	6.60	4.90	3.50	1.8149	0.0910	-1.1070	0.0184
	6.60	4.60	3.80	1.8206	0.0898	-1.1055	0.0241
	6.60	4.30	4.10	1.8276	0.0891	-1.0968	0.0323
	6.60	4.00	4.40	1.8320	0.0770	-1.0579	0.0748
	6.60	3.70	4.70	1.8505	0.0302	-0.9824	0.1748
	6.60	3.40	5.00	1.8650	-0.0521	-0.8914	0.3166
	6.60	3.40	5.00	1.8683	-0.0559	-0.8905	0.0000

FILE NAME	:	ACI6
NUMBER OF POINTS	:	57
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0057	0.0074	0.0013	0.0052
	3.00	3.00	3.00	0.0128	0.0114	0.0022	0.0102
	3.50	3.50	3.50	0.0232	0.0135	0.0063	0.0173
	4.00	4.00	4.00	0.0284	0.0180	0.0216	0.0272
	4.50	4.50	4.50	0.0300	0.0231	0.0235	0.0304
	4.75	4.75	4.75	0.0268	0.0243	0.0256	0.0350
	5.00	5.00	5.00	0.0290	0.0293	0.0305	0.0333
A	5.00	5.00	5.00	0.0336	0.0298	0.0289	0.0000
	5.20	4.80	5.00	0.0354	0.0278	0.0290	0.0032
	5.40	4.60	5.00	0.0386	0.0309	0.0307	0.0045
	5.60	4.40	5.00	0.0413	0.0310	0.0291	0.0081
	5.80	4.20	5.00	0.0466	0.0288	0.0271	0.0151
	6.00	4.00	5.00	0.0563	0.0283	0.0296	0.0237
	6.20	3.80	5.00	0.0656	0.0283	0.0282	0.0331
	6.40	3.60	5.00	0.0856	0.0196	0.0320	0.0566
	6.60	3.40	5.00	0.1333	-0.0066	0.0316	0.1179
	6.80	3.20	5.00	0.2071	-0.0774	0.0470	0.2367
	7.00	3.00	5.00	0.3479	-0.2033	0.0676	0.4548
	7.20	2.80	5.00	0.5349	-0.3763	0.0912	0.7491
	7.40	2.60	5.00	0.8019	-0.6368	0.1304	1.1811
	7.60	2.40	5.00	1.1199	-0.9760	0.1686	1.7197
	7.70	2.30	5.00	1.3114	-1.1818	0.1898	2.0452
C	7.70	2.30	5.00	1.3114	-1.1840	0.1918	0.0000
	7.60	2.40	5.00	1.3188	-1.1818	0.1932	0.0053
	7.40	2.60	5.00	1.3131	-1.1855	0.1874	0.0073
	7.20	2.80	5.00	1.3159	-1.1877	0.1918	0.0130
	7.00	3.00	5.00	1.3187	-1.1837	0.1908	0.0173
	6.80	3.20	5.00	1.3170	-1.1888	0.1912	0.0218
	6.60	3.40	5.00	1.3125	-1.1866	0.1904	0.0273
I	6.60	3.40	5.00	1.3159	-1.1871	0.1907	0.0000
	6.40	3.80	4.80	1.3171	-1.1853	0.1919	0.0006
	6.20	4.20	4.60	1.3200	-1.1747	0.1907	0.0103
	6.00	4.60	4.40	1.3195	-1.1397	0.1898	0.0440
	5.80	5.00	4.20	1.3131	-1.0630	0.1788	0.1246
	5.60	5.40	4.00	1.3029	-0.9298	0.1532	0.2677
	5.40	5.80	3.80	1.2747	-0.7372	0.0875	0.4955
	5.20	6.20	3.60	1.2424	-0.5479	-0.0043	0.7374
	5.00	6.60	3.40	1.2065	-0.2884	-0.1236	1.0624
	4.80	7.00	3.20	1.1510	0.0322	-0.2979	1.4844

FILE NAME (CONTINUED)							ACI6
6	4.60	7.40	3.00	1.0829	0.4203	-0.5439	2.0185
	4.60	7.40	3.00	1.0815	0.4263	-0.5446	0.0000
I	4.80	7.00	3.20	1.0841	0.4291	-0.5468	0.0047
	5.00	6.60	3.40	1.0841	0.4302	-0.5473	0.0059
	5.20	6.20	3.60	1.0823	0.4263	-0.5456	0.0106
	5.40	5.80	3.80	1.0841	0.4295	-0.5450	0.0128
	5.60	5.40	4.00	1.0834	0.4293	-0.5468	0.0142
	5.80	5.00	4.20	1.0896	0.4251	-0.5456	0.0228
	6.00	4.60	4.40	1.0909	0.4131	-0.5388	0.0386
	6.20	4.20	4.60	1.1015	0.3880	-0.5264	0.0731
	6.40	3.80	4.80	1.1280	0.3346	-0.4977	0.1495
	6.60	3.40	5.00	1.1879	0.2338	-0.4350	0.3024
	6.60	3.40	5.00	1.1879	0.2299	-0.4327	0.0000
	6.20	3.80	5.00	1.1885	0.2322	-0.4329	0.0020
	5.80	4.20	5.00	1.1898	0.2268	-0.4303	0.0090
A	5.40	4.60	5.00	1.1872	0.2294	-0.4282	0.0136
	5.00	5.00	5.00	1.1834	0.2295	-0.4265	0.0182

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FILE NAME                               : ACI7
NUMBER OF POINTS                       : 55
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0045	0.0013	0.0004	0.0035
	3.00	3.00	3.00	0.0112	0.0102	0.0076	0.0054
	3.50	3.50	3.50	0.0151	0.0160	0.0133	0.0071
	4.00	4.00	4.00	0.0175	0.0192	0.0228	0.0134
	4.50	4.50	4.50	0.0240	0.0274	0.0199	0.0231
	4.75	4.75	4.75	0.0240	0.0291	0.0268	0.0290
	5.00	5.00	5.00	0.0292	0.0301	0.0256	0.0343
	5.00	5.00	5.00	0.0298	0.0295	0.0225	0.0000
	5.20	4.80	5.00	0.0316	0.0305	0.0230	0.0010
	5.40	4.60	5.00	0.0339	0.0317	0.0280	0.0042
	5.60	4.40	5.00	0.0425	0.0295	0.0217	0.0167
	5.80	4.20	5.00	0.0449	0.0286	0.0234	0.0196
	6.00	4.00	5.00	0.0510	0.0275	0.0201	0.0277
	6.20	3.80	5.00	0.0697	0.0221	0.0229	0.0477
	6.40	3.60	5.00	0.0877	0.0146	0.0181	0.0706
	6.60	3.40	5.00	0.1226	-0.0145	0.0182	0.1228
	6.80	3.20	5.00	0.2335	-0.0994	0.0214	0.2830
	7.00	3.00	5.00	0.3701	-0.2085	0.0290	0.4836
	7.20	2.80	5.00	0.6289	-0.4501	0.0424	0.8922
	7.40	2.60	5.00	0.8328	-0.6619	0.0604	1.2323
	7.60	2.40	5.00	1.1160	-0.9593	0.0797	1.7070
	7.75	2.25	5.00	1.4055	-1.2928	0.1088	2.2180
	7.75	2.25	5.00	1.4066	-1.2916	0.1131	0.0000
	7.60	2.40	5.00	1.4072	-1.3014	0.1130	0.0094
	7.40	2.60	5.00	1.4072	-1.2971	0.1094	0.0159
	7.20	2.80	5.00	1.4048	-1.2987	0.1131	0.0212
	7.00	3.00	5.00	1.4073	-1.3013	0.1116	0.0256
	6.80	3.20	5.00	1.4077	-1.3029	0.1103	0.0273
	6.60	3.40	5.00	1.4090	-1.3013	0.1130	0.0286
	6.60	3.40	5.00	1.4078	-1.3012	0.1127	0.0000
	6.20	3.80	5.00	1.4083	-1.2996	0.1186	0.0047
	5.80	4.20	5.00	1.4077	-1.2873	0.1170	0.0173
	5.40	4.60	5.00	1.3903	-1.2359	0.1168	0.0758
	5.00	5.00	5.00	1.3574	-1.1450	0.1183	0.1801
	4.60	5.40	5.00	1.2608	-0.9738	0.1233	0.4009
	4.20	5.80	5.00	1.1388	-0.7826	0.1213	0.6589
	3.80	6.20	5.00	0.9632	-0.5245	0.1254	1.0147
	3.40	6.60	5.00	0.7109	-0.2126	0.1262	1.4762
	3.00	7.00	5.00	0.3632	0.1476	0.1530	2.0546

FILE NAME (CONTINUED)				:	ACI7	
3.00	7.00	5.00	0.3611	0.1502	0.1537	0.0000
3.40	6.60	5.00	0.3638	0.1503	0.1540	0.0023
3.80	6.20	5.00	0.3644	0.1508	0.1536	0.0032
4.20	5.80	5.00	0.3719	0.1502	0.1557	0.0100
4.60	5.40	5.00	0.3745	0.1525	0.1543	0.0136
5.00	5.00	5.00	0.3831	0.1492	0.1557	0.0234
5.40	4.60	5.00	0.4059	0.1454	0.1537	0.0476
5.80	4.20	5.00	0.4596	0.1159	0.1619	0.1157
6.20	3.80	5.00	0.5488	0.0521	0.1626	0.2411
6.60	3.40	5.00	0.6960	-0.0810	0.1725	0.4700
6.60	3.40	5.00	0.6974	-0.0800	0.1732	0.0000
6.20	3.80	5.00	0.6921	-0.0779	0.1715	0.0061
5.80	4.20	5.00	0.6915	-0.0811	0.1732	0.0101
5.40	4.60	5.00	0.6933	-0.0810	0.1712	0.0133
5.00	5.00	5.00	0.6938	-0.0811	0.1714	0.0138

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FILE NAME                               : ACI8
NUMBER OF POINTS                       : 57
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0049	0.0027	-0.0037	0.0073
	3.00	3.00	3.00	0.0141	0.0081	0.0091	0.0133
	3.50	3.50	3.50	0.0143	0.0120	0.0098	0.0166
	4.00	4.00	4.00	0.0191	0.0165	0.0149	0.0170
	4.50	4.50	4.50	0.0237	0.0202	0.0195	0.0178
	5.00	5.00	5.00	0.0269	0.0241	0.0231	0.0183
A	5.00	5.00	5.00	0.0256	0.0203	0.0204	0.0000
	5.20	4.80	5.00	0.0258	0.0218	0.0210	0.0012
	5.40	4.60	5.00	0.0323	0.0213	0.0230	0.0070
	5.60	4.40	5.00	0.0339	0.0251	0.0228	0.0103
	5.80	4.20	5.00	0.0407	0.0230	0.0210	0.0186
	6.00	4.00	5.00	0.0483	0.0229	0.0190	0.0269
	6.20	3.80	5.00	0.0583	0.0165	0.0267	0.0414
	6.40	3.60	5.00	0.0761	0.0108	0.0284	0.0610
	6.60	3.40	5.00	0.1221	-0.0266	0.0322	0.1291
	6.80	3.20	5.00	0.2157	-0.0954	0.0432	0.2616
	7.00	3.00	5.00	0.3945	-0.2524	0.0668	0.5362
	7.20	2.80	5.00	0.5890	-0.4233	0.0907	0.8347
	7.40	2.60	5.00	0.8636	-0.7008	0.1282	1.2871
	7.60	2.40	5.00	1.1786	-1.0283	0.1638	1.8131
	7.75	2.25	5.00	1.5015	-1.3907	0.1975	2.3749
C	7.75	2.25	5.00	1.4928	-1.3874	0.1959	0.0000
	7.60	2.40	5.00	1.5039	-1.3911	0.1990	0.0121
	7.40	2.60	5.00	1.5044	-1.3923	0.1995	0.0137
	7.20	2.80	5.00	1.5037	-1.3890	0.1991	0.0174
	7.00	3.00	5.00	1.5020	-1.3902	0.1980	0.0180
	6.80	3.20	5.00	1.5059	-1.3923	0.2000	0.0230
	6.60	3.40	5.00	1.5054	-1.3907	0.1981	0.0259
I	6.60	3.40	5.00	1.5032	-1.3895	0.2001	0.0000
	6.30	3.55	5.15	1.4998	-1.3891	0.2042	0.0062
	6.00	3.70	5.30	1.4978	-1.3853	0.2050	0.0109
	5.70	3.85	5.45	1.4968	-1.3820	0.2099	0.0158
	5.40	4.00	5.60	1.4891	-1.3723	0.2179	0.0315
	5.10	4.15	5.75	1.4749	-1.3507	0.2244	0.0608
	4.80	4.30	5.90	1.4512	-1.3133	0.2466	0.1128
	4.50	4.45	6.05	1.4101	-1.2622	0.2668	0.1894
	4.20	4.60	6.20	1.3461	-1.1922	0.3173	0.3076
	3.90	4.75	6.35	1.2551	-1.1152	0.3762	0.4583
	3.60	4.90	6.50	1.1140	-1.0196	0.4842	0.6875

FILE NAME (CONTINUED)							:	ACI8
	3.30	5.05	6.65	0.9338	-0.9140	0.5891		0.9567
	3.00	5.20	6.80	0.6770	-0.7714	0.7557		1.3450
	2.70	5.35	6.95	0.3704	-0.6307	0.9395		1.7884
	2.50	5.45	7.05	0.0913	-0.5094	1.1205		2.1969
8	2.50	5.45	7.05	0.0835	-0.5050	1.1267		0.0000
	3.00	5.20	6.80	0.0889	-0.5039	1.1261		0.0049
	3.60	4.90	6.50	0.0929	-0.5008	1.1302		0.0059
	4.20	4.60	6.20	0.1054	-0.5012	1.1328		0.0169
	4.80	4.30	5.90	0.1349	-0.5054	1.1367		0.0457
	5.40	4.00	5.60	0.1963	-0.5153	1.1277		0.1126
	6.00	3.70	5.30	0.3341	-0.5652	1.1041		0.2785
	6.60	3.40	5.00	0.5438	-0.6498	1.0514		0.5422
I	6.60	3.40	5.00	0.5491	-0.6435	1.0511		0.0000
	6.20	3.80	5.00	0.5478	-0.6503	1.0473		0.0046
	5.80	4.20	5.00	0.5455	-0.6465	1.0462		0.0100
	5.40	4.60	5.00	0.5443	-0.6494	1.0436		0.0115
A	5.00	5.00	5.00	0.5403	-0.6466	1.0435		0.0171

FILE NAME	:	ACI9
NUMBER OF POINTS	:	52
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0009	0.0073	0.0063	0.0073
	3.00	3.00	3.00	0.0056	0.0094	0.0096	0.0111
	3.50	3.50	3.50	0.0111	0.0070	0.0145	0.0182
	4.00	4.00	4.00	0.0132	0.0102	0.0160	0.0196
	4.50	4.50	4.50	0.0199	0.0162	0.0212	0.0208
	5.00	5.00	5.00	0.0237	0.0180	0.0236	0.0225
A	5.00	5.00	5.00	0.0237	0.0172	0.0214	0.0000
	5.20	4.80	5.00	0.0215	0.0159	0.0251	0.0052
	5.40	4.60	5.00	0.0221	0.0191	0.0241	0.0087
	5.60	4.40	5.00	0.0301	0.0191	0.0258	0.0156
	5.80	4.20	5.00	0.0371	0.0186	0.0194	0.0266
	6.00	4.00	5.00	0.0480	0.0192	0.0270	0.0351
	6.20	3.80	5.00	0.0522	0.0132	0.0285	0.0438
	6.40	3.60	5.00	0.0781	0.0106	0.0277	0.0699
	6.60	3.40	5.00	0.1119	-0.0156	0.0327	0.1188
	6.80	3.20	5.00	0.2118	-0.0838	0.0410	0.2563
	7.00	3.00	5.00	0.3993	-0.2339	0.0575	0.5320
	7.20	2.80	5.00	0.6255	-0.4139	0.0740	0.8637
	7.40	2.60	5.00	0.9054	-0.6814	0.1067	1.3113
	7.60	2.40	5.00	1.1969	-0.9642	0.1270	1.7805
	7.70	2.30	5.00	1.4392	-1.2210	0.1561	2.1894
C	7.70	2.30	5.00	1.4395	-1.2243	0.1561	0.0000
	7.60	2.40	5.00	1.4411	-1.2199	0.1549	0.0046
	7.40	2.60	5.00	1.4439	-1.2221	0.1608	0.0113
	7.20	2.80	5.00	1.4496	-1.2221	0.1583	0.0182
	7.00	3.00	5.00	1.4478	-1.2221	0.1574	0.0197
	6.80	3.20	5.00	1.4486	-1.2232	0.1604	0.0231
	6.60	3.40	5.00	1.4485	-1.2231	0.1614	0.0240
I	6.60	3.40	5.00	1.4433	-1.2242	0.1614	0.0000
	6.20	3.40	5.40	1.4478	-1.2247	0.1646	0.0043
	5.80	3.40	5.80	1.4433	-1.2247	0.1740	0.0158
	5.40	3.40	6.20	1.4414	-1.2273	0.1881	0.0313
	5.00	3.40	6.60	1.4251	-1.2292	0.2317	0.0824
	4.60	3.40	7.00	1.3805	-1.2267	0.3375	0.2079
	4.20	3.40	7.40	1.2606	-1.2364	0.5616	0.4949
	3.80	3.40	7.80	1.0407	-1.2491	0.8734	0.9325
	3.40	3.40	8.20	0.7100	-1.3211	1.3318	1.5894
	3.15	3.40	8.45	0.4274	-1.3775	1.6957	2.1251
9	3.15	3.40	8.45	0.4270	-1.3834	1.6940	0.0000

FILE NAME		(CONTINUED)				:	ACI9
	3.60	3.40	8.00	0.4205	-1.3806	1.6950	0.0080
	4.20	3.40	7.40	0.4286	-1.3821	1.6981	0.0158
	4.80	3.40	6.80	0.4334	-1.3833	1.7029	0.0214
	5.40	3.40	6.20	0.4593	-1.3865	1.6974	0.0499
	6.00	3.40	5.60	0.5311	-1.3913	1.6548	0.1451
	6.60	3.40	5.00	0.7173	-1.4163	1.5661	0.3801
I	6.60	3.40	5.00	0.7172	-1.4147	1.5684	0.0000
	6.20	3.80	5.00	0.7132	-1.4152	1.5629	0.0042
	5.80	4.20	5.00	0.7144	-1.4131	1.5526	0.0154
	5.40	4.60	5.00	0.7170	-1.4112	1.5465	0.0234
	5.00	5.00	5.00	0.7171	-1.3897	1.5374	0.0490
A	5.00	5.00	5.00	0.7161	-1.3918	1.5384	0.0000

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FILE NAME                               : ACI10
NUMBER OF POINTS                       : 61
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0017	0.0137	-0.0012	0.0129
	3.00	3.00	3.00	0.0131	0.0166	0.0077	0.0200
	3.50	3.50	3.50	0.0186	0.0190	0.0203	0.0286
	4.00	4.00	4.00	0.0204	0.0250	0.0297	0.0347
	4.50	4.50	4.50	0.0159	0.0263	0.0364	0.0439
	4.75	4.75	4.75	0.0232	0.0276	0.0384	0.0491
	5.00	5.00	5.00	0.0203	0.0305	0.0412	0.0545
A	5.00	5.00	5.00	0.0249	0.0304	0.0405	0.0000
	5.20	4.80	5.00	0.0277	0.0309	0.0360	0.0061
	5.40	4.60	5.00	0.0351	0.0293	0.0490	0.0181
	5.60	4.40	5.00	0.0364	0.0347	0.0372	0.0328
	5.80	4.20	5.00	0.0465	0.0315	0.0395	0.0437
	6.00	4.00	5.00	0.0453	0.0304	0.0439	0.0490
	6.20	3.80	5.00	0.0590	0.0309	0.0453	0.0610
	6.40	3.60	5.00	0.0732	0.0241	0.0465	0.0784
	6.60	3.40	5.00	0.1054	0.0011	0.0520	0.1235
	6.80	3.20	5.00	0.1864	-0.0610	0.0533	0.2405
	7.00	3.00	5.00	0.3189	-0.1641	0.0707	0.4329
	7.20	2.80	5.00	0.5317	-0.3466	0.0687	0.7556
	7.40	2.60	5.00	0.7988	-0.6047	0.1169	1.1851
	7.60	2.40	5.00	1.1101	-0.9182	0.1411	1.6958
	7.75	2.25	5.00	1.3831	-1.2088	0.1616	2.1568
C	7.75	2.25	5.00	1.3827	-1.2086	0.1606	0.0000
	7.60	2.40	5.00	1.3859	-1.2055	0.1601	0.0035
	7.40	2.60	5.00	1.3865	-1.2066	0.1600	0.0050
	7.20	2.80	5.00	1.3851	-1.2166	0.1601	0.0139
	7.00	3.00	5.00	1.3796	-1.2162	0.1621	0.0205
	6.80	3.20	5.00	1.3898	-1.2225	0.1622	0.0342
	6.60	3.40	5.00	1.3831	-1.2205	0.1592	0.0414
I	6.60	3.40	5.00	1.3848	-1.2183	0.1605	0.0000
	6.50	3.30	5.20	1.3848	-1.2156	0.1648	0.0035
	6.40	3.20	5.40	1.3865	-1.2166	0.1660	0.0058
	6.30	3.10	5.60	1.3865	-1.2172	0.1706	0.0105
	6.20	3.00	5.80	1.3888	-1.2157	0.1754	0.0133
	6.10	2.90	6.00	1.3858	-1.2204	0.1822	0.0234
	6.00	2.80	6.20	1.3858	-1.2210	0.1862	0.0275
	5.90	2.70	6.40	1.3854	-1.2204	0.1964	0.0371
	5.80	2.60	6.60	1.3835	-1.2247	0.2155	0.0581
	5.70	2.50	6.80	1.3790	-1.2610	0.2578	0.1227

FILE NAME (CONTINUED)							ACI10
	5.60	2.40	7.00	1.3730	-1.3397	0.3494	0.2622
	5.50	2.30	7.20	1.3678	-1.4633	0.4874	0.4762
	5.40	2.20	7.40	1.3685	-1.6139	0.6427	0.7259
	5.30	2.10	7.60	1.3561	-1.8792	0.8948	1.1484
	5.20	2.00	7.80	1.3465	-2.1538	1.1346	1.5684
	5.10	1.90	8.00	1.3372	-2.5305	1.4692	2.1494
10	5.10	1.90	8.00	1.3339	-2.5359	1.4698	0.0000
	5.30	2.10	7.60	1.3343	-2.5358	1.4699	0.0003
	5.50	2.30	7.20	1.3303	-2.5332	1.4763	0.0090
	5.70	2.50	6.80	1.3332	-2.5342	1.4764	0.0123
	5.90	2.70	6.40	1.3325	-2.5354	1.4779	0.0146
	6.10	2.90	6.00	1.3412	-2.5278	1.4822	0.0183
	6.30	3.10	5.60	1.3484	-2.5218	1.4712	0.0350
	6.50	3.30	5.20	1.3647	-2.5071	1.4507	0.0689
	6.60	3.40	5.00	1.3815	-2.4924	1.4355	0.0981
I	6.60	3.40	5.00	1.3827	-2.4929	1.4368	0.0000
	6.20	3.80	5.00	1.3837	-2.4682	1.4249	0.0304
	5.80	4.20	5.00	1.3872	-2.3988	1.4059	0.1055
	5.40	4.60	5.00	1.3889	-2.3002	1.3819	0.2110
A	5.00	5.00	5.00	1.3674	-2.1353	1.3374	0.3985
	5.00	5.00	5.00	1.3673	-2.1342	1.3358	0.0000

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FILE NAME                               : ACI11
NUMBER OF POINTS                       : 51
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0008	0.0027	-0.0001	0.0024
	3.00	3.00	3.00	0.0041	0.0088	0.0084	0.0066
	3.50	3.50	3.50	0.0097	0.0096	0.0082	0.0117
	4.00	4.00	4.00	0.0155	0.0162	0.0111	0.0150
	4.50	4.50	4.50	0.0187	0.0165	0.0235	0.0254
	4.75	4.75	4.75	0.0183	0.0182	0.0265	0.0281
	5.00	5.00	5.00	0.0179	0.0218	0.0268	0.0317
A	5.00	5.00	5.00	0.0162	0.0193	0.0274	0.0000
	5.20	4.80	5.00	0.0246	0.0247	0.0278	0.0066
	5.40	4.60	5.00	0.0220	0.0225	0.0280	0.0090
	5.60	4.40	5.00	0.0279	0.0236	0.0301	0.0132
	5.80	4.20	5.00	0.0324	0.0220	0.0302	0.0184
	6.00	4.00	5.00	0.0395	0.0203	0.0320	0.0256
	6.20	3.80	5.00	0.0494	0.0210	0.0328	0.0342
	6.40	3.60	5.00	0.0620	0.0173	0.0312	0.0487
	6.60	3.40	5.00	0.0965	-0.0026	0.0359	0.0931
	6.80	3.20	5.00	0.1635	-0.0457	0.0449	0.1831
	7.00	3.00	5.00	0.3455	-0.2003	0.0750	0.4584
	7.20	2.80	5.00	0.5287	-0.3777	0.0978	0.7534
	7.40	2.60	5.00	0.7668	-0.6078	0.1406	1.1374
	7.60	2.40	5.00	1.0741	-0.9302	0.1717	1.6529
	7.75	2.25	5.00	1.3443	-1.2375	0.2106	2.1275
C	7.75	2.25	5.00	1.3483	-1.2402	0.2134	0.0000
	7.60	2.40	5.00	1.3489	-1.2387	0.2118	0.0026
	7.40	2.60	5.00	1.3472	-1.2386	0.2151	0.0067
	7.20	2.80	5.00	1.3441	-1.2365	0.2155	0.0110
	7.00	3.00	5.00	1.3442	-1.2386	0.2132	0.0133
	6.80	3.20	5.00	1.3464	-1.2364	0.2166	0.0144
	6.60	3.40	5.00	1.3464	-1.2360	0.2143	0.0167
I	6.60	3.40	5.00	1.3459	-1.2380	0.2129	0.0000
	6.60	3.20	5.20	1.3460	-1.2384	0.2191	0.0060
	6.60	3.00	5.40	1.3477	-1.2427	0.2182	0.0109
	6.60	2.80	5.60	1.3494	-1.2439	0.2219	0.0149
	6.60	2.60	5.80	1.3454	-1.2406	0.2241	0.0213
	6.60	2.40	6.00	1.3476	-1.2443	0.2324	0.0312
	6.60	2.20	6.20	1.3511	-1.2979	0.2766	0.1113
	6.60	2.00	6.40	1.4272	-1.5451	0.4344	0.4611
	6.60	1.80	6.60	1.5935	-2.1062	0.7874	1.2498
	6.60	1.65	6.75	1.7723	-2.6703	1.0774	2.0081

FILE NAME (CONTINUED)				:	ACI11		
11	6.60	1.65	6.75	1.7751	-2.6730	1.0757	0.0000
	6.60	1.80	6.60	1.7769	-2.6699	1.0767	0.0018
	6.60	2.20	6.20	1.7758	-2.6692	1.0771	0.0033
	6.60	2.60	5.80	1.7792	-2.6666	1.0775	0.0058
	6.60	3.00	5.40	1.7810	-2.6614	1.0833	0.0094
	6.60	3.40	5.00	1.7860	-2.6423	1.0847	0.0246
I	6.60	3.40	5.00	1.7890	-2.6396	1.0822	0.0000
	6.20	3.80	5.00	1.7850	-2.6034	1.0704	0.0420
	5.80	4.20	5.00	1.7849	-2.5233	1.0531	0.1269
	5.40	4.60	5.00	1.7625	-2.3783	1.0315	0.2844
A	5.00	5.00	5.00	1.7043	-2.1545	1.0026	0.5376

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FILE NAME                               : ACI12
NUMBER OF POINTS                       : 49
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0115	0.0043	0.0030	0.0075
	3.00	3.00	3.00	0.0090	0.0120	0.0131	0.0185
	3.50	3.50	3.50	0.0144	0.0205	0.0136	0.0251
	4.00	4.00	4.00	0.0151	0.0244	0.0193	0.0292
	4.50	4.50	4.50	0.0165	0.0266	0.0262	0.0340
	4.75	4.75	4.75	0.0222	0.0266	0.0294	0.0386
	5.00	5.00	5.00	0.0235	0.0309	0.0311	0.0413
A	5.00	5.00	5.00	0.0246	0.0299	0.0310	0.0000
	5.20	4.80	5.00	0.0231	0.0326	0.0295	0.0040
	5.40	4.60	5.00	0.0236	0.0315	0.0305	0.0058
	5.60	4.40	5.00	0.0273	0.0299	0.0333	0.0105
	6.00	4.00	5.00	0.0373	0.0309	0.0311	0.0208
	6.20	3.80	5.00	0.0459	0.0276	0.0330	0.0305
	6.40	3.60	5.00	0.0623	0.0170	0.0340	0.0526
	6.60	3.40	5.00	0.0908	-0.0109	0.0429	0.0994
	6.80	3.20	5.00	0.1674	-0.0751	0.0656	0.2154
	7.00	3.00	5.00	0.3204	-0.2137	0.0971	0.4547
	7.20	2.80	5.00	0.5276	-0.4149	0.1240	0.7888
	7.40	2.60	5.00	0.7937	-0.6898	0.1691	1.2330
	7.60	2.40	5.00	1.0650	-0.9766	0.2069	1.6906
	7.75	2.25	5.00	1.3381	-1.2997	0.2507	2.1818
C	7.75	2.25	5.00	1.3442	-1.3007	0.2523	0.0000
	7.60	2.40	5.00	1.3442	-1.3014	0.2502	0.0017
	7.40	2.60	5.00	1.3471	-1.3007	0.2512	0.0036
	7.20	2.80	5.00	1.3448	-1.3061	0.2544	0.0107
	7.00	3.00	5.00	1.3453	-1.3071	0.2535	0.0121
	6.80	3.20	5.00	1.3406	-1.3072	0.2517	0.0159
	6.60	3.40	5.00	1.3425	-1.3061	0.2512	0.0179
I	6.60	3.40	5.00	1.3464	-1.3049	0.2507	0.0000
	6.75	3.10	5.15	1.3442	-1.3039	0.2544	0.0048
	6.90	2.80	5.30	1.3436	-1.3049	0.2561	0.0073
	7.05	2.50	5.45	1.3466	-1.3034	0.2584	0.0084
	7.20	2.20	5.60	1.3494	-1.3090	0.2646	0.0184
	7.35	1.90	5.75	1.7044	-1.9692	0.5247	0.9341
	7.50	1.60	5.90	2.3448	-3.1910	0.9324	2.5910
12	7.50	1.60	5.90	2.3464	-3.1910	0.9315	0.0000
	7.35	1.90	5.75	2.3483	-3.1916	0.9324	0.0021
	7.20	2.20	5.60	2.3477	-3.1894	0.9335	0.0043
	7.05	2.50	5.45	2.3470	-3.1878	0.9310	0.0077

FILE NAME (CONTINUED)							ACI12
	6.90	2.80	5.30	2.3465	-3.1814	0.9320	0.0136
	6.75	3.10	5.15	2.3430	-3.1782	0.9314	0.0191
	6.60	3.40	5.00	2.3470	-3.1578	0.9309	0.0371
I	6.60	3.40	5.00	2.3477	-3.1572	0.9309	0.0000
	6.20	3.80	5.00	2.3452	-3.1031	0.9305	0.0524
	5.80	4.20	5.00	2.3335	-2.9740	0.9242	0.1828
	5.40	4.60	5.00	2.2875	-2.7839	0.9136	0.3906
	5.00	5.00	5.00	2.1907	-2.5297	0.8988	0.6905
A	5.00	5.00	5.00	2.1891	-2.5301	0.8957	0.0000

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FILE NAME                               : ACD1
NUMBER OF POINTS                       : 46
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0024	0.0062	0.0080	0.0046
	3.00	3.00	3.00	0.0068	0.0105	0.0134	0.0056
	3.50	3.50	3.50	0.0072	0.0146	0.0227	0.0130
	4.00	4.00	4.00	0.0141	0.0197	0.0292	0.0145
	4.50	4.50	4.50	0.0207	0.0164	0.0324	0.0226
	5.00	5.00	5.00	0.0191	0.0194	0.0332	0.0263
A	5.00	5.00	5.00	0.0174	0.0194	0.0312	0.0000
	5.20	4.80	5.00	0.0216	0.0221	0.0306	0.0040
	5.40	4.60	5.00	0.0245	0.0194	0.0367	0.0114
	5.60	4.40	5.00	0.0278	0.0178	0.0380	0.0153
	5.80	4.20	5.00	0.0343	0.0178	0.0396	0.0209
	6.00	4.00	5.00	0.0350	0.0200	0.0412	0.0221
	6.20	3.80	5.00	0.0449	0.0172	0.0388	0.0339
	6.40	3.60	5.00	0.0593	0.0174	0.0358	0.0491
	6.60	3.40	5.00	0.0867	0.0020	0.0374	0.0842
	6.80	3.20	5.00	0.1322	-0.0294	0.0421	0.1471
	7.00	3.00	5.00	0.2562	-0.1207	0.0525	0.3229
	7.20	2.80	5.00	0.4473	-0.2880	0.0710	0.6157
	7.40	2.60	5.00	0.6965	-0.5324	0.1015	1.0195
	7.60	2.40	5.00	0.9638	-0.8061	0.1260	1.4621
	7.80	2.20	5.00	1.2986	-1.1899	0.1599	2.0513
C	7.80	2.20	5.00	1.3004	-1.1872	0.1599	0.0000
	7.80	2.50	4.70	1.3020	-1.1899	0.1607	0.0037
	7.80	2.80	4.40	1.3134	-1.1910	0.1645	0.0140
	7.80	3.10	4.10	1.3219	-1.1913	0.1624	0.0233
	7.80	3.40	3.80	1.3432	-1.1894	0.1591	0.0445
	7.80	3.70	3.50	1.4220	-1.1656	0.1008	0.1571
	7.80	4.00	3.20	1.5370	-1.1223	-0.0022	0.3385
	7.80	4.30	2.90	1.6754	-1.0323	-0.1752	0.6122
	7.80	4.60	2.60	1.8705	-0.9537	-0.4017	0.9677
	7.80	4.90	2.30	2.0972	-0.7689	-0.7593	1.5000
	7.80	5.15	2.05	2.3639	-0.6147	-1.1525	2.0764
D	7.80	5.15	2.05	2.3645	-0.6162	-1.1556	0.0000
	8.00	4.95	2.05	2.4902	-0.5602	-1.3334	0.2595
	8.20	4.75	2.05	2.5704	-0.5516	-1.4338	0.4081
	8.40	4.55	2.05	2.6868	-0.5406	-1.5624	0.6088
	8.60	4.35	2.05	2.8736	-0.5353	-1.7582	0.9213
	8.80	4.15	2.05	3.1135	-0.5406	-1.9729	1.2929
	9.00	3.95	2.05	3.4496	-0.5996	-2.2562	1.8050

FILE NAME	(CONTINUED)						ACD1
	9.10	3.85	2.05	3.6884	-0.6553	-2.4546	2.1690
1	9.10	3.85	2.05	3.6875	-0.6537	-2.4508	0.0000
	8.80	4.15	2.05	3.6928	-0.6527	-2.4498	0.0040
	8.40	4.55	2.05	3.6921	-0.6517	-2.4566	0.0106
	8.00	4.95	2.05	3.6907	-0.6544	-2.4591	0.0118
D	7.80	5.15	2.05	3.6948	-0.6537	-2.4601	0.0161

FILE NAME	:	ACD2
NUMBER OF POINTS	:	51
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENSIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINEMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0052	0.0062	-0.0006	0.0061
	3.00	3.00	3.00	0.0044	0.0144	0.0030	0.0134
	3.50	3.50	3.50	0.0081	0.0169	0.0093	0.0166
	4.00	4.00	4.00	0.0147	0.0183	0.0205	0.0246
	4.50	4.50	4.50	0.0150	0.0209	0.0220	0.0265
	5.00	5.00	5.00	0.0176	0.0288	0.0230	0.0324
A	5.00	5.00	5.00	0.0165	0.0271	0.0247	0.0000
	5.20	4.80	5.00	0.0224	0.0245	0.0273	0.0071
	5.40	4.60	5.00	0.0221	0.0303	0.0298	0.0121
	5.60	4.40	5.00	0.0240	0.0266	0.0302	0.0169
	5.80	4.20	5.00	0.0334	0.0272	0.0336	0.0242
	6.00	4.00	5.00	0.0408	0.0251	0.0291	0.0345
	6.20	3.80	5.00	0.0529	0.0189	0.0339	0.0495
	6.40	3.60	5.00	0.0690	0.0088	0.0366	0.0709
	6.60	3.40	5.00	0.1234	-0.0246	0.0446	0.1426
	6.80	3.20	5.00	0.2087	-0.0874	0.0602	0.2636
	7.00	3.00	5.00	0.3909	-0.2300	0.0788	0.5288
	7.20	2.80	5.00	0.6342	-0.4496	0.1139	0.9074
	7.40	2.60	5.00	0.9153	-0.7128	0.1564	1.3530
	7.60	2.40	5.00	1.2421	-1.0512	0.2021	1.8983
	7.70	2.30	5.00	1.4907	-1.3144	0.2439	2.3186
C	7.70	2.30	5.00	1.4884	-1.3154	0.2412	0.0000
	7.70	2.55	4.75	1.4953	-1.3186	0.2449	0.0084
	7.70	2.80	4.50	1.4970	-1.3196	0.2443	0.0108
	7.70	3.05	4.25	1.5060	-1.3182	0.2458	0.0179
	7.70	3.30	4.00	1.5176	-1.3144	0.2459	0.0276
	7.70	3.55	3.75	1.5556	-1.3093	0.2288	0.0730
	7.70	3.80	3.50	1.6339	-1.3041	0.1785	0.1782
	7.70	4.05	3.25	1.7390	-1.2494	0.0630	0.3669
	7.70	4.30	3.00	1.8743	-1.2001	-0.0708	0.5914
	7.70	4.55	2.75	2.0385	-1.0762	-0.2934	0.9386
	7.70	4.80	2.50	2.2658	-0.9472	-0.6050	1.4073
	7.70	5.05	2.25	2.4705	-0.7791	-0.9404	1.9002
	7.70	5.15	2.15	2.6005	-0.6914	-1.1362	2.1894
D	7.70	5.15	2.15	2.6026	-0.6920	-1.1389	0.0000
	7.85	4.85	2.30	2.6103	-0.6903	-1.1462	0.0174
	8.00	4.55	2.45	2.6121	-0.6904	-1.1482	0.0155
	8.15	4.25	2.60	2.6194	-0.6921	-1.1476	0.0231
	8.30	3.95	2.75	2.6291	-0.6919	-1.1474	0.0331

FILE NAME	(CONTINUED)				:	ACD2	
	8.45	3.65	2.90	2.7061	-0.7122	-1.1566	0.1193
	8.60	3.35	3.05	2.8927	-0.8264	-1.2063	0.3780
	8.75	3.05	3.20	3.1130	-0.9922	-1.2465	0.6996
	8.90	2.75	3.35	3.4929	-1.3176	-1.2978	1.2803
	9.05	2.45	3.50	4.1330	-1.9405	-1.3738	2.3145
2	9.05	2.45	3.50	4.1365	-1.9383	-1.3765	0.0000
	8.90	2.75	3.35	4.1415	-1.9444	-1.3839	0.0111
	8.60	3.35	3.05	4.1470	-1.9437	-1.3883	0.0191
	8.30	3.95	2.75	4.1549	-1.9385	-1.4110	0.0468
	8.00	4.55	2.45	4.2274	-1.8445	-1.5775	0.2829
D	7.70	5.15	2.15	4.3537	-1.5798	-1.9128	0.7960

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FILE NAME                               :          ACD3
NUMBER OF POINTS                       :          56
APPARATUS USED                         :          CUB TRI
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :          7*7*7
INITIAL CONFINMENT STRESS (PSI)        :          5.0
INITIAL RELATIVE DENSITY DR ( % )      :          72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0009	0.0047	0.0023	0.0031
	3.00	3.00	3.00	0.0095	0.0120	0.0075	0.0059
	3.50	3.50	3.50	0.0109	0.0114	0.0061	0.0082
	4.00	4.00	4.00	0.0182	0.0176	0.0135	0.0093
	4.50	4.50	4.50	0.0206	0.0193	0.0189	0.0125
	4.75	4.75	4.75	0.0195	0.0216	0.0217	0.0161
	5.00	5.00	5.00	0.0189	0.0233	0.0300	0.0236
A	5.00	5.00	5.00	0.0255	0.0222	0.0268	0.0000
	5.20	4.80	5.00	0.0226	0.0203	0.0331	0.0083
	5.40	4.60	5.00	0.0272	0.0218	0.0276	0.0168
	5.60	4.40	5.00	0.0249	0.0224	0.0271	0.0192
	5.80	4.20	5.00	0.0342	0.0202	0.0338	0.0290
	6.00	4.00	5.00	0.0376	0.0202	0.0324	0.0331
	6.20	3.80	5.00	0.0486	0.0169	0.0346	0.0449
	6.40	3.60	5.00	0.0584	0.0111	0.0351	0.0576
	6.60	3.40	5.00	0.0854	-0.0108	0.0284	0.0985
	6.80	3.20	5.00	0.1294	-0.0473	0.0322	0.1642
	7.00	3.00	5.00	0.2739	-0.1586	0.0571	0.3732
	7.20	2.80	5.00	0.4799	-0.3413	0.0818	0.6909
	7.40	2.60	5.00	0.7096	-0.5686	0.1129	1.0650
	7.60	2.40	5.00	0.9865	-0.8593	0.1424	1.5298
	7.80	2.20	5.00	1.3616	-1.2956	0.1878	2.1962
C	7.80	2.20	5.00	1.3621	-1.2945	0.1856	0.0000
	7.80	2.50	4.70	1.3699	-1.2966	0.1904	0.0083
	7.80	2.80	4.40	1.3739	-1.2940	0.1889	0.0130
	7.80	3.10	4.10	1.3834	-1.2947	0.1893	0.0221
	7.80	3.40	3.80	1.4020	-1.2918	0.1867	0.0401
	7.80	3.70	3.50	1.4721	-1.2592	0.1363	0.1408
	7.80	4.00	3.20	1.5804	-1.2237	0.0321	0.3172
	7.80	4.30	2.90	1.7430	-1.1179	-0.1553	0.6239
	7.80	4.60	2.60	1.9575	-1.0199	-0.4033	1.0167
	7.80	4.90	2.30	2.1740	-0.8387	-0.7533	1.5350
	7.80	5.20	2.00	2.5397	-0.6142	-1.3114	2.3476
D	7.80	5.20	2.00	2.5368	-0.6160	-1.3131	0.0000
	7.80	4.90	2.30	2.5391	-0.6158	-1.3106	0.0022
	7.80	4.60	2.60	2.5368	-0.6180	-1.3124	0.0026
	7.80	4.30	2.90	2.5413	-0.6148	-1.3131	0.0070
	7.80	4.00	3.20	2.5408	-0.6144	-1.3108	0.0093
	7.80	3.70	3.50	2.5452	-0.6191	-1.3056	0.0184

FILE NAME (CONTINUED)						:	ACD3
	7.80	3.40	3.80	2.5587	-0.6300	-1.2942	0.0404
	7.80	3.10	4.10	2.5927	-0.7006	-1.2451	0.1469
	7.80	2.80	4.40	2.6536	-0.8188	-1.1842	0.3157
	7.80	2.50	4.70	2.7586	-1.0552	-1.0585	0.6478
	7.80	2.20	5.00	2.8979	-1.3353	-0.9430	1.0325
	7.80	1.90	5.30	3.1089	-1.8632	-0.7096	1.7398
	7.80	1.80	5.40	3.2386	-2.1424	-0.6221	2.1072
3	7.80	1.80	5.40	3.2391	-2.1429	-0.6199	0.0000
	7.80	2.20	5.00	3.2469	-2.1484	-0.6131	0.0121
	7.80	2.50	4.70	3.2440	-2.1458	-0.6145	0.0167
	7.80	2.80	4.40	3.2461	-2.1408	-0.6166	0.0225
	7.80	3.10	4.10	3.2490	-2.1384	-0.6173	0.0257
	7.80	3.40	3.80	3.2564	-2.1278	-0.6194	0.0365
	7.80	4.00	3.20	3.2880	-2.0313	-0.6889	0.1730
	7.80	4.60	2.60	3.4185	-1.7650	-0.9312	0.6031
D	7.80	5.20	2.00	3.6720	-1.3569	-1.5081	1.4681

FILE NAME	:	ACD4
NUMBER OF POINTS	:	53
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFIMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0058	-0.0015	-0.0004	0.0064
	3.00	3.00	3.00	0.0129	0.0032	0.0051	0.0084
	3.50	3.50	3.50	0.0131	0.0085	0.0060	0.0129
	4.00	4.00	4.00	0.0161	0.0126	0.0164	0.0195
	4.50	4.50	4.50	0.0205	0.0093	0.0226	0.0276
	4.75	4.75	4.75	0.0227	0.0102	0.0274	0.0309
	5.00	5.00	5.00	0.0239	0.0087	0.0270	0.0332
A	5.00	5.00	5.00	0.0228	0.0147	0.0250	0.0000
	5.20	4.80	5.00	0.0267	0.0147	0.0270	0.0032
	5.40	4.60	5.00	0.0257	0.0138	0.0246	0.0045
	5.60	4.40	5.00	0.0281	0.0105	0.0251	0.0092
	5.80	4.20	5.00	0.0265	0.0126	0.0229	0.0131
	6.00	4.00	5.00	0.0351	0.0120	0.0267	0.0205
	6.20	3.80	5.00	0.0401	0.0120	0.0248	0.0264
	6.40	3.60	5.00	0.0501	0.0108	0.0259	0.0361
	6.60	3.40	5.00	0.0682	-0.0102	0.0359	0.0698
	6.80	3.20	5.00	0.1251	-0.0447	0.0365	0.1451
	7.00	3.00	5.00	0.2098	-0.1040	0.0480	0.2626
	7.20	2.80	5.00	0.3997	-0.2660	0.0707	0.5501
	7.40	2.60	5.00	0.5902	-0.4526	0.0951	0.8588
	7.60	2.40	5.00	0.8706	-0.7366	0.1268	1.3207
	7.80	2.20	5.00	1.2086	-1.1257	0.1750	1.9183
C	7.80	2.20	5.00	1.2125	-1.1306	0.1732	0.0000
	7.80	2.50	4.70	1.2153	-1.1289	0.1788	0.0033
	7.80	2.80	4.40	1.2186	-1.1331	0.1792	0.0095
	7.80	3.10	4.10	1.2394	-1.1305	0.1792	0.0280
	7.80	3.40	3.80	1.2512	-1.1264	0.1737	0.0422
	7.80	3.70	3.50	1.3121	-1.1132	0.1264	0.1307
	7.80	4.00	3.20	1.4291	-1.0868	0.0235	0.3112
	7.80	4.30	2.90	1.5770	-0.9858	-0.1569	0.6012
	7.80	4.60	2.60	1.7582	-0.9055	-0.3792	0.9440
	7.80	4.90	2.30	1.9806	-0.7227	-0.7325	1.4691
	7.80	5.15	2.05	2.2374	-0.5795	-1.1093	2.0209
D	7.80	5.15	2.05	2.2341	-0.5778	-1.1098	0.0000
	7.55	4.90	2.55	2.2396	-0.5756	-1.1106	0.0051
	7.30	4.65	3.05	2.2424	-0.5778	-1.1143	0.0107
	7.05	4.40	3.55	2.2433	-0.5783	-1.1122	0.0128
	6.80	4.15	4.05	2.2439	-0.5724	-1.1011	0.0215
	6.55	3.90	4.55	2.2444	-0.5772	-1.0676	0.0553

FILE NAME (CONTINUED)				:	ACD4		
	6.30	3.65	5.05	2.2337	-0.5994	-0.9821	0.1519
	6.05	3.40	5.55	2.2242	-0.6555	-0.8567	0.3058
	5.80	3.15	6.05	2.1916	-0.7463	-0.6694	0.5454
	5.55	2.90	6.55	2.1404	-0.8938	-0.4323	0.8722
	5.30	2.65	7.05	2.0726	-1.1082	-0.1197	1.3164
	5.00	2.35	7.65	1.9506	-1.5078	0.3914	2.0786
4	5.00	2.35	7.65	1.9500	-1.5115	0.3905	0.0000
	5.30	2.65	7.05	1.9473	-1.5132	0.3973	0.0086
	5.80	3.15	6.05	1.9511	-1.5127	0.4063	0.0155
	6.30	3.65	5.05	1.9591	-1.5017	0.3942	0.0360
	6.80	4.15	4.05	2.0102	-1.4348	0.3235	0.1590
	7.30	4.65	3.05	2.1858	-1.2217	0.0294	0.6206
D	7.80	5.15	2.05	2.6839	-0.7912	-0.8641	1.9018

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FILE NAME                               :          ACD5
NUMBER OF POINTS                       :          55
APPARATUS USED                         :          CUB TRI
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENSIONS X,Y,Z (IN.) :          7*7*7
INITIAL CONFINEMENT STRESS (PSI)       :          5.0
INITIAL RELATIVE DENSITY DR ( % )      :          72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0044	0.0047	-0.0008	0.0050
	3.00	3.00	3.00	0.0011	0.0097	0.0039	0.0127
	3.50	3.50	3.50	0.0007	0.0127	0.0054	0.0154
	4.00	4.00	4.00	0.0100	0.0164	0.0129	0.0201
	4.50	4.50	4.50	0.0131	0.0204	0.0115	0.0248
	5.00	5.00	5.00	0.0142	0.0223	0.0165	0.0281
A	5.00	5.00	5.00	0.0171	0.0228	0.0179	0.0000
	5.20	4.80	5.00	0.0172	0.0207	0.0172	0.0018
	5.40	4.60	5.00	0.0235	0.0222	0.0162	0.0079
	5.60	4.40	5.00	0.0202	0.0179	0.0146	0.0102
	5.80	4.20	5.00	0.0296	0.0169	0.0172	0.0188
	6.00	4.00	5.00	0.0347	0.0179	0.0181	0.0227
	6.20	3.80	5.00	0.0527	0.0146	0.0203	0.0408
	6.40	3.60	5.00	0.0699	0.0055	0.0219	0.0624
	6.60	3.40	5.00	0.1047	-0.0136	0.0289	0.1064
	6.80	3.20	5.00	0.1713	-0.0513	0.0304	0.1924
	7.00	3.00	5.00	0.3275	-0.1807	0.0514	0.4257
	7.20	2.80	5.00	0.5026	-0.3424	0.0754	0.7011
	7.40	2.60	5.00	0.7506	-0.5926	0.1064	1.1091
	7.60	2.40	5.00	1.0306	-0.8790	0.1452	1.5732
	7.80	2.20	5.00	1.3589	-1.2444	0.1866	2.1425
C	7.80	2.20	5.00	1.3590	-1.2483	0.1882	0.0000
	7.80	2.50	4.70	1.3610	-1.2455	0.1914	0.0010
	7.80	2.80	4.40	1.3640	-1.2492	0.1876	0.0074
	7.80	3.10	4.10	1.3722	-1.2487	0.1913	0.0136
	7.80	3.40	3.80	1.4061	-1.2440	0.1859	0.0470
	7.80	3.70	3.50	1.4596	-1.2335	0.1377	0.1304
	7.80	4.00	3.20	1.5821	-1.2043	0.0301	0.3193
	7.80	4.30	2.90	1.7298	-1.0970	-0.1567	0.6175
	7.80	4.60	2.60	1.8990	-0.9754	-0.3902	0.9769
	7.80	4.90	2.30	2.1402	-0.7832	-0.7564	1.5278
	7.80	5.10	2.10	2.3371	-0.6714	-1.0501	1.9560
D	7.80	5.10	2.10	2.3410	-0.6709	-1.0506	0.0000
	7.30	5.10	2.60	2.3482	-0.6710	-1.0575	0.0115
	6.80	5.10	3.10	2.3510	-0.6698	-1.0615	0.0173
	6.30	5.10	3.60	2.3447	-0.6627	-1.0578	0.0285
	5.80	5.10	4.10	2.3407	-0.6580	-1.0342	0.0516
	5.30	5.10	4.60	2.3141	-0.6392	-0.9731	0.1232
	4.80	5.10	5.10	2.2173	-0.5988	-0.8416	0.3109

FILE NAME		(CONTINUED)				:	ACD5
	4.30	5.10	5.60	2.0516	-0.5394	-0.6469	0.6082
	3.80	5.10	6.10	1.8046	-0.4607	-0.3960	1.0212
	3.30	5.10	6.60	1.4466	-0.3741	-0.0491	1.6032
	3.00	5.10	6.90	1.1313	-0.3138	0.2279	2.0926
5	3.00	5.10	6.90	1.1359	-0.3131	0.2300	0.0000
	3.30	5.10	6.60	1.1364	-0.3126	0.2283	0.0020
	3.80	5.10	6.10	1.1354	-0.3111	0.2315	0.0055
	4.30	5.10	5.60	1.1398	-0.3117	0.2347	0.0098
	4.80	5.10	5.10	1.1459	-0.3077	0.2284	0.0206
	5.30	5.10	4.60	1.1696	-0.3046	0.2161	0.0502
	5.80	5.10	4.10	1.2245	-0.2961	0.1822	0.1227
	6.30	5.10	3.60	1.3502	-0.2734	0.0895	0.3012
	6.80	5.10	3.10	1.5031	-0.2433	-0.0566	0.5465
	7.30	5.10	2.60	1.7848	-0.1918	-0.3405	1.0110
D	7.80	5.10	2.10	2.2193	-0.1000	-0.8856	1.8228

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FILE NAME                               : ACE1
NUMBER OF POINTS                       : 52
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0011	0.0063	-0.0005	0.0058
	3.00	3.00	3.00	0.0062	0.0072	0.0058	0.0103
	3.50	3.50	3.50	0.0106	0.0124	0.0077	0.0131
	4.00	4.00	4.00	0.0158	0.0127	0.0116	0.0172
	4.50	4.50	4.50	0.0169	0.0118	0.0168	0.0222
	4.75	4.75	4.75	0.0217	0.0205	0.0207	0.0264
	5.00	5.00	5.00	0.0224	0.0211	0.0223	0.0274
A	5.00	5.00	5.00	0.0195	0.0152	0.0220	0.0000
	5.20	4.80	5.00	0.0212	0.0206	0.0226	0.0040
	5.40	4.60	5.00	0.0237	0.0136	0.0204	0.0080
	5.60	4.40	5.00	0.0264	0.0158	0.0221	0.0137
	5.80	4.20	5.00	0.0314	0.0142	0.0242	0.0191
	6.00	4.00	5.00	0.0330	0.0142	0.0270	0.0214
	6.20	3.80	5.00	0.0427	0.0103	0.0249	0.0334
	6.40	3.60	5.00	0.0536	0.0115	0.0222	0.0448
	6.60	3.40	5.00	0.0789	0.0002	0.0255	0.0750
	6.80	3.20	5.00	0.1251	-0.0291	0.0258	0.1371
	7.00	3.00	5.00	0.2170	-0.0987	0.0408	0.2690
	7.20	2.80	5.00	0.3897	-0.2389	0.0605	0.5245
	7.40	2.60	5.00	0.6097	-0.4486	0.0870	0.8759
	7.60	2.40	5.00	0.8998	-0.7500	0.1218	1.3604
	7.80	2.20	5.00	1.1995	-1.0893	0.1539	1.8845
C	7.80	2.20	5.00	1.1949	-1.0878	0.1519	0.0000
	7.55	2.70	4.75	1.1995	-1.0916	0.1572	0.0083
	7.30	3.20	4.50	1.2040	-1.0920	0.1583	0.0124
	7.05	3.70	4.25	1.2056	-1.0909	0.1597	0.0128
	6.80	4.20	4.00	1.2039	-1.0668	0.1587	0.0368
	6.55	4.70	3.75	1.2023	-0.9893	0.1356	0.1233
	6.30	5.20	3.50	1.2090	-0.8660	0.0687	0.2799
	6.05	5.70	3.25	1.2077	-0.6870	-0.0337	0.5127
	5.80	6.20	3.00	1.2174	-0.4544	-0.1818	0.8250
	5.55	6.70	2.75	1.2172	-0.1509	-0.3953	1.2493
	5.30	7.20	2.50	1.2195	0.2078	-0.7023	1.7933
	5.20	7.40	2.40	1.2161	0.4490	-0.9114	2.1614
E	5.20	7.40	2.40	1.2138	0.4472	-0.9115	0.0000
	5.40	7.30	2.30	1.2137	0.4542	-0.9173	0.0104
	5.60	7.20	2.20	1.2238	0.5390	-1.0131	0.1586
	5.80	7.10	2.10	1.2372	0.6116	-1.1032	0.2931
	6.00	7.00	2.00	1.2534	0.6434	-1.1424	0.3540

FILE NAME (CONTINUED)				:	ACE1		
	6.20	6.90	1.90	1.3034	0.7282	-1.2938	0.5623
	6.40	6.80	1.80	1.3759	0.8164	-1.4618	0.7967
	6.60	6.70	1.70	1.4738	0.9097	-1.6700	1.0832
	6.80	6.60	1.60	1.5941	1.0109	-1.9068	1.4113
	7.00	6.50	1.50	1.7790	1.1337	-2.2306	1.8645
	7.10	6.45	1.45	1.9168	1.2261	-2.4902	2.2196
1	7.10	6.45	1.45	1.9186	1.2250	-2.4890	0.0000
	6.80	6.60	1.60	1.9197	1.2293	-2.4888	0.0035
	6.40	6.80	1.80	1.9190	1.2329	-2.4900	0.0078
	6.00	7.00	2.00	1.9184	1.2351	-2.4837	0.0134
	5.60	7.20	2.20	1.9190	1.2449	-2.4900	0.0266
E	5.20	7.40	2.40	1.9168	1.2772	-2.4887	0.0576

FILE NAME	:	ACE2
NUMBER OF POINTS	:	53
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0013	0.0034	-0.0010	0.0036
	3.00	3.00	3.00	0.0027	0.0036	0.0027	0.0065
	3.50	3.50	3.50	0.0066	0.0038	0.0101	0.0123
	4.00	4.00	4.00	0.0094	0.0131	0.0153	0.0176
	4.50	4.50	4.50	0.0154	0.0128	0.0181	0.0228
	5.00	5.00	5.00	0.0127	0.0138	0.0221	0.0283
A	5.00	5.00	5.00	0.0185	0.0167	0.0185	0.0000
	5.20	4.80	5.00	0.0222	0.0161	0.0201	0.0034
	5.40	4.60	5.00	0.0205	0.0138	0.0233	0.0084
	5.60	4.40	5.00	0.0274	0.0123	0.0227	0.0159
	5.80	4.20	5.00	0.0264	0.0135	0.0217	0.0190
	6.00	4.00	5.00	0.0367	0.0123	0.0226	0.0279
	6.20	3.80	5.00	0.0430	0.0157	0.0201	0.0353
	6.40	3.60	5.00	0.0541	0.0119	0.0256	0.0475
	6.60	3.40	5.00	0.0892	-0.0019	0.0268	0.0884
	6.80	3.20	5.00	0.1564	-0.0429	0.0331	0.1769
	7.00	3.00	5.00	0.2996	-0.1561	0.0535	0.3864
	7.20	2.80	5.00	0.4948	-0.3239	0.0812	0.6831
	7.40	2.60	5.00	0.7484	-0.5664	0.1159	1.0891
	7.60	2.40	5.00	1.0520	-0.8640	0.1558	1.5812
	7.80	2.20	5.00	1.3756	-1.2379	0.1947	2.1539
C	7.80	2.20	5.00	1.3744	-1.2364	0.1967	0.0000
	7.55	2.70	4.75	1.3803	-1.2358	0.1966	0.0053
	7.30	3.20	4.50	1.3835	-1.2406	0.1975	0.0120
	7.05	3.70	4.25	1.3819	-1.2314	0.1998	0.0209
	6.30	4.20	4.00	1.3796	-1.2032	0.1977	0.0496
	5.55	4.70	3.75	1.3823	-1.1289	0.1774	0.1301
	6.30	5.20	3.50	1.3907	-0.9828	0.0987	0.3152
	6.05	5.70	3.25	1.3935	-0.7908	-0.0212	0.5718
	5.80	6.20	3.00	1.3997	-0.5170	-0.2035	0.9461
	5.55	6.70	2.75	1.3975	-0.1904	-0.4407	1.4085
	5.30	7.20	2.50	1.3992	0.2466	-0.8139	2.0707
E	5.30	7.20	2.50	1.4021	0.2488	-0.8166	0.0000
	5.60	6.90	2.50	1.4020	0.2502	-0.8178	0.0022
	5.90	6.60	2.50	1.4009	0.2454	-0.8204	0.0052
	6.20	6.30	2.50	1.3995	0.2486	-0.8252	0.0117
	6.50	6.00	2.50	1.4070	0.2508	-0.8256	0.0182
	6.80	5.70	2.50	1.4172	0.2531	-0.8292	0.0296
	7.10	5.40	2.50	1.4410	0.2514	-0.8422	0.0604

FILE NAME		(CONTINUED)					ACE2
	7.40	5.10	2.50	1.4920	0.2513	-0.8727	0.1276
	7.70	4.80	2.50	1.6028	0.2424	-0.9396	0.2756
	8.00	4.50	2.50	1.7592	0.2318	-1.0535	0.4983
	8.30	4.20	2.50	1.9997	0.1679	-1.2046	0.8340
	8.60	3.90	2.50	2.3519	0.0642	-1.4406	1.3380
	8.90	3.60	2.50	2.8233	-0.1209	-1.7153	2.0032
2	8.90	3.60	2.50	2.8238	-0.1247	-1.7176	0.0000
	8.30	4.20	2.50	2.8238	-0.1247	-1.7217	0.0038
	7.70	4.80	2.50	2.8226	-0.1246	-1.7250	0.0066
	7.10	5.40	2.50	2.8248	-0.1205	-1.7243	0.0094
	6.50	6.00	2.50	2.8238	-0.1036	-1.7419	0.0376
	5.90	6.60	2.50	2.7984	0.0320	-1.8036	0.2091
E	5.30	7.20	2.50	2.6913	0.3275	-1.9281	0.5971

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FILE NAME                               : ACE3
NUMBER OF POINTS                       : 52
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0026	0.0052	0.0003	0.0065
	3.00	3.00	3.00	-0.0029	0.0087	0.0029	0.0096
	3.50	3.50	3.50	0.0037	0.0122	0.0052	0.0132
	4.00	4.00	4.00	0.0037	0.0141	0.0164	0.0229
	4.50	4.50	4.50	0.0113	0.0137	0.0242	0.0305
	4.75	4.75	4.75	0.0154	0.0159	0.0260	0.0325
	5.00	5.00	5.00	0.0144	0.0127	0.0310	0.0395
A	5.00	5.00	5.00	0.0167	0.0121	0.0287	0.0000
	5.20	4.80	5.00	0.0190	0.0133	0.0254	0.0049
	5.40	4.60	5.00	0.0208	0.0127	0.0259	0.0069
	5.60	4.40	5.00	0.0237	0.0165	0.0297	0.0078
	5.80	4.20	5.00	0.0295	0.0134	0.0314	0.0151
	6.00	4.00	5.00	0.0340	0.0096	0.0325	0.0218
	6.20	3.80	5.00	0.0433	0.0128	0.0337	0.0287
	6.40	3.60	5.00	0.0594	0.0091	0.0323	0.0464
	6.60	3.40	5.00	0.0877	-0.0047	0.0364	0.0809
	6.80	3.20	5.00	0.1566	-0.0370	0.0356	0.1655
	7.00	3.00	5.00	0.2675	-0.1230	0.0468	0.3262
	7.20	2.80	5.00	0.4501	-0.2692	0.0630	0.5947
	7.40	2.60	5.00	0.6848	-0.4882	0.0877	0.9655
	7.60	2.40	5.00	0.9581	-0.7701	0.1159	1.4198
	7.80	2.20	5.00	1.3045	-1.1451	0.1561	2.0111
C	7.80	2.20	5.00	1.2999	-1.1435	0.1571	0.0000
	7.55	2.70	4.75	1.2993	-1.1479	0.1586	0.0049
	7.30	3.20	4.50	1.3016	-1.1461	0.1602	0.0055
	7.05	3.70	4.25	1.3032	-1.1409	0.1571	0.0124
	6.80	4.20	4.00	1.3049	-1.1103	0.1570	0.0405
	6.55	4.70	3.75	1.3064	-1.0336	0.1433	0.1195
	6.30	5.20	3.50	1.3120	-0.9033	0.0830	0.2776
	6.05	5.70	3.25	1.3170	-0.7101	-0.0400	0.5373
	5.80	6.20	3.00	1.3293	-0.4471	-0.2129	0.8946
	5.55	6.70	2.75	1.3295	-0.1442	-0.4409	1.3295
	5.30	7.20	2.50	1.3306	0.2668	-0.7924	1.9527
E	5.30	7.20	2.50	1.3329	0.2684	-0.7925	0.0000
	5.55	6.70	2.75	1.3317	0.2674	-0.7919	0.0016
	5.80	6.20	3.00	1.3324	0.2641	-0.7926	0.0050
	6.05	5.70	3.25	1.3357	0.2657	-0.7914	0.0068
	6.30	5.20	3.50	1.3359	0.2662	-0.7903	0.0076
	6.55	4.70	3.75	1.3355	0.2643	-0.7898	0.0095

FILE NAME (CONTINUED)				:	ACE3		
	6.80	4.20	4.00	1.3589	0.2434	-0.7811	0.0464
	7.05	3.70	4.25	1.3991	0.1940	-0.7522	0.1261
	7.30	3.20	4.50	1.4908	0.0560	-0.6887	0.3306
	7.55	2.70	4.75	1.6975	-0.2428	-0.5537	0.7772
	7.80	2.20	5.00	2.0521	-0.8289	-0.3782	1.5929
	7.90	2.00	5.10	2.3273	-1.2621	-0.2890	2.1927
3	7.90	2.00	5.10	2.3296	-1.2599	-0.2886	0.0000
	7.30	3.20	4.50	2.3317	-1.2589	-0.2858	0.0015
	6.80	4.20	4.00	2.3295	-1.2155	-0.2827	0.0422
	6.30	5.20	3.50	2.3206	-0.9931	-0.3445	0.2890
	5.80	6.20	3.00	2.2758	-0.5950	-0.5610	0.8069
E	5.30	7.20	2.50	2.1813	0.0877	-1.0331	1.7684

FILE NAME	:	ACE4
NUMBER OF POINTS	:	50
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0049	0.0023	-0.0021	0.0059
	3.00	3.00	3.00	-0.0024	0.0001	0.0020	0.0113
	3.50	3.50	3.50	0.0035	0.0029	0.0061	0.0138
	4.00	4.00	4.00	0.0130	0.0035	0.0109	0.0210
	4.50	4.50	4.50	0.0166	0.0112	0.0116	0.0268
	5.00	5.00	5.00	0.0133	0.0096	0.0216	0.0386
A	5.00	5.00	5.00	0.0144	0.0103	0.0238	0.0000
	5.20	4.80	5.00	0.0191	0.0103	0.0228	0.0049
	5.40	4.60	5.00	0.0214	0.0103	0.0218	0.0077
	5.60	4.40	5.00	0.0290	0.0104	0.0231	0.0143
	5.80	4.20	5.00	0.0284	0.0103	0.0208	0.0161
	6.00	4.00	5.00	0.0405	0.0043	0.0260	0.0310
	6.20	3.80	5.00	0.0459	0.0055	0.0285	0.0346
	6.40	3.60	5.00	0.0604	0.0001	0.0324	0.0508
	6.60	3.40	5.00	0.0804	-0.0137	0.0349	0.0784
	6.80	3.20	5.00	0.1333	-0.0527	0.0433	0.1534
	7.00	3.00	5.00	0.2216	-0.1325	0.0559	0.2910
	7.20	2.80	5.00	0.4110	-0.3076	0.0807	0.5891
	7.40	2.60	5.00	0.6515	-0.5359	0.1116	0.9725
	7.60	2.40	5.00	0.9449	-0.8434	0.1430	1.4645
	7.80	2.20	5.00	1.2911	-1.2348	0.1922	2.0704
C	7.80	2.20	5.00	1.2951	-1.2408	0.1947	0.0000
	7.55	2.70	4.75	1.2997	-1.2386	0.1974	0.0020
	7.30	3.20	4.50	1.2957	-1.2375	0.1979	0.0065
	7.05	3.70	4.25	1.2996	-1.2322	0.1978	0.0111
	6.80	4.20	4.00	1.2990	-1.2065	0.1986	0.0352
	6.55	4.70	3.75	1.3000	-1.1203	0.1790	0.1268
	6.30	5.20	3.50	1.3068	-0.9802	0.1024	0.3053
	6.05	5.70	3.25	1.3128	-0.7798	-0.0172	0.5685
	5.80	6.20	3.00	1.3277	-0.5121	-0.2012	0.9382
	5.55	6.70	2.75	1.3259	-0.1740	-0.4474	1.4174
	5.30	7.20	2.50	1.3349	0.2430	-0.7904	2.0386
E	5.30	7.20	2.50	1.3313	0.2436	-0.7873	0.0000
	5.30	6.70	3.00	1.3341	0.2458	-0.7868	0.0019
	5.30	6.20	3.50	1.3341	0.2398	-0.7879	0.0071
	5.30	5.70	4.00	1.3346	0.2458	-0.7855	0.0116
	5.30	5.20	4.50	1.3297	0.2457	-0.7799	0.0202
	5.30	4.70	5.00	1.3210	0.2324	-0.7430	0.0655
	5.30	4.20	5.50	1.3139	0.1782	-0.6448	0.1929

FILE NAME (CONTINUED)				:	ACE4		
	5.30	3.70	6.00	1.3133	0.0705	-0.4788	0.4181
	5.30	3.20	6.50	1.3097	-0.1455	-0.1921	0.8302
	5.30	2.70	7.00	1.3011	-0.4556	0.1324	1.3485
	5.30	2.20	7.50	1.3049	-1.0833	0.6815	2.3104
4	5.30	2.20	7.50	1.3056	-1.0840	0.6821	0.0000
	5.30	3.20	6.50	1.3056	-1.0807	0.6885	0.0053
	5.30	4.20	5.50	1.3099	-1.0663	0.6881	0.0177
	5.30	5.20	4.50	1.3110	-0.8579	0.6021	0.2647
	5.30	6.20	3.50	1.3106	-0.4349	0.3360	0.8322
E	5.30	7.20	2.50	1.3400	0.3860	-0.4134	2.1144

FILE NAME	:	ACES
NUMBER OF POINTS	:	51
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0009	0.0066	0.0034	0.0047
	3.00	3.00	3.00	0.0057	0.0110	0.0056	0.0070
	3.50	3.50	3.50	0.0106	0.0197	0.0128	0.0101
	4.00	4.00	4.00	0.0193	0.0185	0.0180	0.0184
	4.50	4.50	4.50	0.0181	0.0213	0.0259	0.0257
	4.75	4.75	4.75	0.0187	0.0235	0.0261	0.0274
	5.00	5.00	5.00	0.0217	0.0246	0.0258	0.0301
A	5.00	5.00	5.00	0.0229	0.0226	0.0263	0.0000
	5.20	4.80	5.00	0.0247	0.0232	0.0293	0.0020
	5.40	4.60	5.00	0.0236	0.0216	0.0307	0.0045
	5.60	4.40	5.00	0.0289	0.0214	0.0280	0.0112
	5.80	4.20	5.00	0.0278	0.0220	0.0284	0.0128
	6.00	4.00	5.00	0.0404	0.0183	0.0288	0.0267
	6.20	3.80	5.00	0.0440	0.0125	0.0306	0.0348
	6.40	3.60	5.00	0.0694	0.0066	0.0359	0.0608
	6.60	3.40	5.00	0.1022	-0.0149	0.0356	0.1054
	6.80	3.20	5.00	0.1708	-0.0565	0.0428	0.1956
	7.00	3.00	5.00	0.2956	-0.1554	0.0594	0.3783
	7.20	2.80	5.00	0.5347	-0.3598	0.0804	0.7405
	7.40	2.60	5.00	0.7596	-0.5803	0.1172	1.1056
	7.60	2.40	5.00	1.1062	-0.9346	0.1542	1.6791
	7.80	2.20	5.00	1.4429	-1.3223	0.2013	2.2745
C	7.80	2.20	5.00	1.4429	-1.3229	0.1988	0.0000
	7.55	2.70	4.75	1.4464	-1.3214	0.2052	0.0040
	7.30	3.20	4.50	1.4555	-1.3308	0.2052	0.0192
	7.05	3.70	4.25	1.4535	-1.3291	0.2047	0.0223
	6.80	4.20	4.00	1.4567	-1.3038	0.1998	0.0478
	6.55	4.70	3.75	1.4556	-1.2294	0.1689	0.1365
	6.30	5.20	3.50	1.4561	-1.0701	0.0902	0.3343
	6.05	5.70	3.25	1.4649	-0.8473	-0.0462	0.6294
	5.80	6.20	3.00	1.4748	-0.7410	-0.1132	0.7712
	5.55	6.70	2.75	1.4753	-0.2135	-0.4821	1.5069
	5.30	7.20	2.50	1.4682	0.2229	-0.8213	2.1424
E	5.30	7.20	2.50	1.4699	0.2180	-0.8208	0.0000
	5.05	6.95	3.00	1.4634	0.2234	-0.8260	0.0107
	4.80	6.70	3.50	1.4664	0.2218	-0.8267	0.0147
	4.55	6.45	4.00	1.4560	0.2213	-0.8235	0.0262
	4.30	6.20	4.50	1.4443	0.2287	-0.7978	0.0557
	4.05	5.95	5.00	1.3960	0.2378	-0.7208	0.1591

FILE NAME (CONTINUED)				:	ACES		
	3.80	5.70	5.50	1.3011	0.2579	-0.5923	0.3415
	3.55	5.45	6.00	1.1516	0.2723	-0.4047	0.6168
	3.30	5.20	6.50	0.9499	0.2799	-0.1687	0.9743
	3.05	4.95	7.00	0.6894	0.2872	0.1331	1.4337
	2.80	4.70	7.50	0.2701	0.2841	0.5876	2.1474
5	2.80	4.70	7.50	0.2699	0.2831	0.5885	0.0000
	3.30	5.20	6.50	0.2699	0.2831	0.5946	0.0058
	3.80	5.70	5.50	0.2761	0.2859	0.5932	0.0121
	4.30	6.20	4.50	0.3041	0.3206	0.5574	0.0757
	4.80	6.70	3.50	0.3678	0.4142	0.4658	0.2380
E	5.30	7.20	2.50	0.6948	0.9870	-0.2828	1.3857

FILE NAME	:	ACF1
NUMBER OF POINTS	:	55
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0002	0.0091	0.0000	0.0087
	3.00	3.00	3.00	0.0076	0.0183	0.0077	0.0101
	3.50	3.50	3.50	0.0108	0.0192	0.0213	0.0210
	4.00	4.00	4.00	0.0120	0.0216	0.0234	0.0221
	4.50	4.50	4.50	0.0174	0.0297	0.0271	0.0257
	5.00	5.00	5.00	0.0223	0.0284	0.0386	0.0362
A	5.00	5.00	5.00	0.0264	0.0290	0.0390	0.0000
	5.20	4.80	5.00	0.0235	0.0307	0.0408	0.0044
	5.40	4.60	5.00	0.0230	0.0280	0.0410	0.0069
	5.60	4.40	5.00	0.0289	0.0284	0.0418	0.0119
	5.80	4.20	5.00	0.0410	0.0284	0.0352	0.0274
	6.00	4.00	5.00	0.0441	0.0311	0.0442	0.0332
	6.20	3.80	5.00	0.0549	0.0264	0.0480	0.0459
	6.40	3.60	5.00	0.0661	0.0252	0.0443	0.0589
	6.60	3.40	5.00	0.0993	0.0068	0.0442	0.1016
	6.80	3.20	5.00	0.1571	-0.0175	0.0472	0.1699
	7.00	3.00	5.00	0.2943	-0.1112	0.0574	0.3588
	7.20	2.80	5.00	0.4689	-0.2641	0.0724	0.6261
	7.40	2.60	5.00	0.7002	-0.4834	0.0837	0.9941
	7.60	2.40	5.00	1.0189	-0.8130	0.1112	1.5244
	7.80	2.20	5.00	1.3933	-1.2355	0.1333	2.1765
C	7.80	2.20	5.00	1.3943	-1.2322	0.1355	0.0000
	7.40	2.60	5.00	1.4013	-1.2354	0.1318	0.0098
	7.00	3.00	5.00	1.4054	-1.2333	0.1352	0.0115
	6.60	3.40	5.00	1.3974	-1.2320	0.1391	0.0217
	6.20	3.80	5.00	1.3996	-1.2270	0.1352	0.0291
	5.80	4.20	5.00	1.4020	-1.2203	0.1388	0.0328
	5.40	4.60	5.00	1.3866	-1.1813	0.1383	0.0787
	5.00	5.00	5.00	1.3405	-1.0846	0.1377	0.1979
	4.60	5.40	5.00	1.2703	-0.9479	0.1404	0.3692
	4.20	5.80	5.00	1.1473	-0.7609	0.1412	0.6241
	3.80	6.20	5.00	0.9776	-0.5311	0.1426	0.9514
	3.40	6.60	5.00	0.7476	-0.2543	0.1574	1.3652
	2.90	7.10	5.00	0.3157	0.2489	0.1723	2.1290
F	2.90	7.10	5.00	0.3099	0.2472	0.1739	0.0000
	3.15	7.10	4.75	0.3110	0.2593	0.1751	0.0103
	3.40	7.10	4.50	0.3162	0.2585	0.1779	0.0153
	3.65	7.10	4.25	0.3133	0.2618	0.1800	0.0206
	3.90	7.10	4.00	0.3111	0.2709	0.1816	0.0300

FILE NAME (CONTINUED)				:	ACF1		
	4.15	7.10	3.75	0.3211	0.3140	0.1590	0.0836
	4.40	7.10	3.50	0.3239	0.3931	0.1094	0.1893
	4.65	7.10	3.25	0.3523	0.4794	0.0110	0.3436
	4.90	7.10	3.00	0.3785	0.6246	-0.1286	0.5771
	5.15	7.10	2.75	0.4515	0.7787	-0.3139	0.8665
	5.40	7.10	2.50	0.5194	0.9465	-0.5328	1.1943
	5.65	7.10	2.25	0.6861	1.1882	-0.9301	1.7648
	5.80	7.10	2.10	0.7611	1.3278	-1.1505	2.0782
1	5.80	7.10	2.10	0.7623	1.3273	-1.1595	0.0000
	5.40	7.10	2.50	0.7657	1.3339	-1.1585	0.0046
	4.90	7.10	3.00	0.7634	1.3339	-1.1578	0.0071
	4.40	7.10	3.50	0.7628	1.3366	-1.1528	0.0118
	3.90	7.10	4.00	0.7450	1.3527	-1.1324	0.0459
	3.40	7.10	4.50	0.6224	1.3970	-1.0164	0.2458
F	2.90	7.10	5.00	0.3613	1.5129	-0.8274	0.6402

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FILE NAME                               : ACF2
NUMBER OF POINTS                       : 50
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0034	0.0046	0.0029	0.0014
	3.00	3.00	3.00	0.0048	0.0113	0.0100	0.0066
	3.50	3.50	3.50	0.0118	0.0169	0.0174	0.0080
	4.00	4.00	4.00	0.0188	0.0170	0.0226	0.0139
	4.50	4.50	4.50	0.0189	0.0194	0.0250	0.0160
	4.75	4.75	4.75	0.0218	0.0247	0.0284	0.0181
	5.00	5.00	5.00	0.0201	0.0243	0.0336	0.0241
A	5.00	5.00	5.00	0.0190	0.0269	0.0321	0.0000
	5.20	4.80	5.00	0.0212	0.0205	0.0312	0.0071
	5.40	4.60	5.00	0.0255	0.0260	0.0348	0.0087
	5.60	4.40	5.00	0.0256	0.0232	0.0362	0.0122
	5.80	4.20	5.00	0.0295	0.0220	0.0377	0.0163
	6.20	3.80	5.00	0.0473	0.0248	0.0359	0.0331
	6.60	3.40	5.00	0.0995	0.0151	0.0386	0.0865
	7.00	3.00	5.00	0.2724	-0.1054	0.0462	0.3267
	7.40	2.60	5.00	0.7184	-0.4982	0.0906	1.0118
	7.80	2.20	5.00	1.3528	-1.2023	0.1691	2.1099
C	7.80	2.20	5.00	1.3547	-1.2029	0.1685	0.0000
	7.40	2.60	5.00	1.3575	-1.2013	0.1692	0.0016
	7.00	3.00	5.00	1.3575	-1.2018	0.1817	0.0136
	6.60	3.40	5.00	1.3524	-1.2023	0.1779	0.0175
	6.20	3.80	5.00	1.3550	-1.1922	0.1769	0.0268
	5.80	4.20	5.00	1.3539	-1.1760	0.1790	0.0419
	5.40	4.60	5.00	1.3404	-1.1396	0.1810	0.0835
	5.00	5.00	5.00	1.3104	-1.0721	0.1814	0.1650
	4.60	5.40	5.00	1.2324	-0.9350	0.1861	0.3422
	4.20	5.80	5.00	1.1197	-0.7702	0.1933	0.5694
	3.80	6.20	5.00	0.9544	-0.5449	0.2047	0.8888
	3.40	6.60	5.00	0.7422	-0.2664	0.2168	1.2900
	2.90	7.10	5.00	0.3006	0.1849	0.2536	2.0197
F	2.90	7.10	5.00	0.2962	0.1829	0.2515	0.0000
	3.40	6.85	4.75	0.2941	0.1866	0.2551	0.0054
	3.90	6.60	4.50	0.2994	0.1892	0.2571	0.0082
	4.40	6.35	4.25	0.3068	0.1893	0.2567	0.0154
	4.90	6.10	4.00	0.3171	0.1888	0.2576	0.0249
	5.40	5.85	3.75	0.3688	0.1925	0.2411	0.0821
	5.90	5.60	3.50	0.4523	0.2031	0.1959	0.1876
	6.40	5.35	3.25	0.5930	0.2084	0.1048	0.3776
	6.90	5.10	3.00	0.7980	0.2204	-0.0561	0.6766

FILE NAME (CONTINUED)							ACF2
2	7.40	4.85	2.75	1.0897	0.2277	-0.2994	1.1137
	7.90	4.60	2.50	1.5196	0.2263	-0.6821	1.7776
	8.10	4.50	2.40	1.7681	0.2286	-0.9170	2.1723
	8.10	4.50	2.40	1.7692	0.2237	-0.9165	0.0000
F	7.40	4.85	2.75	1.7716	0.2246	-0.9195	0.0045
	6.40	5.35	3.25	1.7691	0.2226	-0.9220	0.0049
	5.40	5.85	3.75	1.7602	0.2296	-0.9159	0.0195
	4.40	6.35	4.25	1.6451	0.3094	-0.8316	0.2054
	3.40	6.85	4.75	1.2385	0.5887	-0.6190	0.8231
	2.90	7.10	5.00	0.8632	0.8317	-0.4558	1.3723

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FILE NAME                               : ACF3
NUMBER OF POINTS                       : 42
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0036	-0.0036	-0.0038	0.0069
	3.00	3.00	3.00	-0.0011	0.0015	-0.0007	0.0154
	3.50	3.50	3.50	0.0061	0.0042	-0.0047	0.0247
	4.00	4.00	4.00	0.0050	0.0086	0.0053	0.0337
	4.50	4.50	4.50	0.0126	0.0099	0.0134	0.0400
	5.00	5.00	5.00	0.0180	0.0164	0.0186	0.0413
A	5.00	5.00	5.00	0.0201	0.0164	0.0199	0.0000
	5.40	4.60	5.00	0.0185	0.0159	0.0188	0.0010
	5.80	4.20	5.00	0.0273	0.0141	0.0195	0.0101
	6.20	3.80	5.00	0.0385	0.0143	0.0208	0.0200
	6.60	3.40	5.00	0.0809	-0.0044	0.0253	0.0703
	7.00	3.00	5.00	0.2479	-0.1399	0.0552	0.3177
	7.40	2.60	5.00	0.6480	-0.5104	0.1133	0.9482
	7.80	2.20	5.00	1.2659	-1.2076	0.2057	2.0292
C	7.80	2.20	5.00	1.2704	-1.2083	0.2016	0.0000
	7.40	2.60	5.00	1.2755	-1.2070	0.2065	0.0036
	7.00	3.00	5.00	1.2743	-1.2109	0.2134	0.0127
	6.60	3.40	5.00	1.2732	-1.2104	0.2124	0.0142
	6.20	3.80	5.00	1.2724	-1.2032	0.2146	0.0208
	5.80	4.20	5.00	1.2690	-1.1885	0.2172	0.0358
	5.40	4.60	5.00	1.2687	-1.1456	0.2160	0.0769
	5.00	5.00	5.00	1.2367	-1.0547	0.2163	0.1810
	4.60	5.40	5.00	1.1758	-0.9144	0.2203	0.3487
	4.20	5.80	5.00	1.0637	-0.7407	0.2240	0.5835
	3.80	6.20	5.00	0.9188	-0.5340	0.2359	0.8712
	3.40	6.60	5.00	0.6937	-0.2418	0.2535	1.2937
	2.90	7.10	5.00	0.2758	0.2117	0.2835	2.0053
F	2.90	7.10	5.00	0.2741	0.2132	0.2825	0.0000
	3.40	6.60	5.00	0.2775	0.2192	0.2868	0.0021
	3.80	6.20	5.00	0.2781	0.2186	0.2853	0.0039
	4.20	5.80	5.00	0.2815	0.2193	0.2869	0.0061
	4.60	5.40	5.00	0.2792	0.2137	0.2843	0.0091
	5.00	5.00	5.00	0.2899	0.2159	0.2874	0.0167
	5.40	4.60	5.00	0.3071	0.2062	0.2883	0.0388
	5.80	4.20	5.00	0.3585	0.1784	0.2908	0.1041
	6.20	3.80	5.00	0.4504	0.1226	0.2944	0.2254
	6.60	3.40	5.00	0.5995	0.0025	0.3064	0.4452
	7.00	3.00	5.00	0.7999	-0.1945	0.3214	0.7700
	7.40	2.60	5.00	1.0563	-0.4689	0.3488	1.2047
	7.80	2.20	5.00	1.4855	-0.9848	0.3977	1.9812
3	7.80	2.20	5.00	1.4889	-0.9896	0.3998	0.0000

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FILE NAME                               : ACF4
NUMBER OF POINTS                         : 47
APPARATUS USED                           : CUB TRI
TYPE OF TEST                             : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)    : 7*7*7
INITIAL CONFINMENT STRESS (PSI)          : 5.0
INITIAL RELATIVE DENSITY DR ( % )       : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0025	0.0034	0.0006	0.0023
	3.00	3.00	3.00	0.0096	0.0112	0.0105	0.0047
	3.50	3.50	3.50	0.0152	0.0129	0.0121	0.0085
	4.00	4.00	4.00	0.0247	0.0174	0.0169	0.0130
	4.50	4.50	4.50	0.0241	0.0181	0.0234	0.0192
	4.75	4.75	4.75	0.0256	0.0226	0.0270	0.0217
	5.00	5.00	5.00	0.0282	0.0204	0.0253	0.0260
A	5.00	5.00	5.00	0.0306	0.0253	0.0241	0.0000
	5.40	4.60	5.00	0.0348	0.0236	0.0248	0.0049
	5.80	4.20	5.00	0.0388	0.0231	0.0281	0.0088
	6.20	3.80	5.00	0.0565	0.0195	0.0288	0.0272
	6.60	3.40	5.00	0.0892	-0.0074	0.0334	0.0759
	7.00	3.00	5.00	0.2469	-0.1516	0.0641	0.3234
	7.40	2.60	5.00	0.6754	-0.5449	0.1217	0.9955
	7.80	2.20	5.00	1.4532	-1.4049	0.1978	2.3373
C	7.80	2.20	5.00	1.4572	-1.4077	0.1967	0.0000
	7.40	2.60	5.00	1.4681	-1.4189	0.2047	0.0196
	7.00	3.00	5.00	1.4666	-1.4189	0.2063	0.0221
	6.60	3.40	5.00	1.4687	-1.4114	0.2072	0.0279
	6.20	3.80	5.00	1.4682	-1.4120	0.2084	0.0295
	5.80	4.20	5.00	1.4640	-1.3808	0.2112	0.0602
	5.40	4.60	5.00	1.4556	-1.3200	0.2112	0.1218
	5.00	5.00	5.00	1.4160	-1.1952	0.2117	0.2617
	4.60	5.40	5.00	1.3417	-1.0438	0.2151	0.4490
	4.20	5.80	5.00	1.2216	-0.8329	0.2161	0.7225
	3.80	6.20	5.00	1.0482	-0.5945	0.2348	1.0590
	3.40	6.60	5.00	0.8231	-0.2971	0.2460	1.4863
	3.00	7.00	5.00	0.5022	0.0592	0.2716	2.0393
F	3.00	7.00	5.00	0.5000	0.0555	0.2733	0.0000
	3.25	6.50	5.25	0.4982	0.0641	0.2760	0.0086
	3.50	6.00	5.50	0.4982	0.0614	0.2817	0.0156
	3.75	5.50	5.75	0.5026	0.0636	0.2837	0.0178
	4.00	5.00	6.00	0.5016	0.0556	0.2938	0.0327
	4.25	4.50	6.25	0.4999	0.0479	0.3061	0.0495
	4.50	4.00	6.50	0.5068	0.0235	0.3468	0.1026
	4.75	3.50	6.75	0.5227	-0.0519	0.4290	0.2318
	5.00	3.00	7.00	0.5649	-0.2315	0.5747	0.5032
	5.25	2.50	7.25	0.6508	-0.5670	0.8163	0.9908
	5.50	2.00	7.50	0.8307	-1.3598	1.3217	2.0938

FILE NAME (CONTINUED)				:		ACF4	
4	5.50	2.00	7.50	0.8267	-1.3645	1.3249	0.0000
	5.25	2.50	7.25	0.8274	-1.3630	1.3282	0.0022
	5.00	3.00	7.00	0.8256	-1.3588	1.3244	0.0089
	4.50	4.00	6.50	0.8246	-1.3388	1.3267	0.0275
	4.00	5.00	6.00	0.7894	-1.1833	1.3253	0.1937
	3.50	6.00	5.50	0.5772	-0.7521	1.2800	0.7388
F	3.00	7.00	5.00	0.2275	-0.2343	1.2254	1.4591

FILE NAME	:	ACF5
NUMBER OF POINTS	:	48
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0009	0.0020	0.0061	0.0057
	3.00	3.00	3.00	0.0000	0.0083	0.0049	0.0121
	3.50	3.50	3.50	0.0064	0.0138	0.0160	0.0169
	4.00	4.00	4.00	0.0110	0.0114	0.0199	0.0232
	4.50	4.50	4.50	0.0134	0.0169	0.0198	0.0278
	5.00	5.00	5.00	0.0159	0.0209	0.0253	0.0303
A	5.00	5.00	5.00	0.0136	0.0209	0.0253	0.0000
	5.40	4.60	5.00	0.0164	0.0199	0.0317	0.0060
	5.80	4.20	5.00	0.0227	0.0177	0.0307	0.0135
	6.20	3.80	5.00	0.0431	0.0156	0.0341	0.0327
	6.60	3.40	5.00	0.0920	0.0005	0.0417	0.0856
	7.00	3.00	5.00	0.2901	-0.1315	0.0601	0.3555
	7.40	2.60	5.00	0.7215	-0.5440	0.1174	1.0461
	7.80	2.20	5.00	1.3300	-1.1827	0.1808	2.0670
C	7.80	2.20	5.00	1.3288	-1.1832	0.1810	0.0000
	7.40	2.60	5.00	1.3299	-1.1827	0.1865	0.0045
	7.00	3.00	5.00	1.3300	-1.1833	0.1876	0.0058
	6.60	3.40	5.00	1.3282	-1.1822	0.1847	0.0092
	6.20	3.80	5.00	1.3272	-1.1778	0.1864	0.0136
	5.80	4.20	5.00	1.3284	-1.1679	0.1902	0.0208
	5.40	4.60	5.00	1.3221	-1.1314	0.1835	0.0593
	5.00	5.00	5.00	1.2820	-1.0455	0.1920	0.1638
	4.60	5.40	5.00	1.2110	-0.9217	0.1962	0.3241
	4.20	5.80	5.00	1.1060	-0.7464	0.1970	0.5553
	3.80	6.20	5.00	0.9423	-0.5213	0.2114	0.8732
	3.40	6.60	5.00	0.7252	-0.2445	0.2224	1.2767
	2.90	7.10	5.00	0.3046	0.2007	0.2750	1.9847
F	2.90	7.10	5.00	0.3029	0.2033	0.2714	0.0000
	2.90	6.80	5.30	0.2942	0.2065	0.2745	0.0111
	2.90	6.50	5.60	0.2982	0.2066	0.2848	0.0195
	2.90	6.20	5.90	0.2910	0.2066	0.2895	0.0293
	2.90	5.90	6.20	0.2820	0.2055	0.2981	0.0437
	2.90	5.60	6.50	0.2666	0.2049	0.3246	0.0784
	2.90	5.30	6.80	0.2315	0.2060	0.3857	0.1577
	2.90	5.00	7.10	0.1676	0.2016	0.4749	0.2838
	2.90	4.70	7.40	0.0966	0.1842	0.5903	0.4405
	2.90	4.40	7.70	-0.0249	0.1542	0.7805	0.7022
	2.90	4.10	8.00	-0.1748	0.0963	1.0019	1.0179
	2.90	3.80	8.30	-0.3775	-0.0233	1.3379	1.4915

FILE NAME (CONTINUED)						:	ACF5
5	2.90	3.50	8.60	-0.6068	-0.2033	1.7250	2.0509
	2.90	3.50	8.60	-0.6101	-0.2077	1.7264	0.0000
F	2.90	4.10	8.00	-0.6086	-0.2076	1.7305	0.0032
	2.90	4.70	7.40	-0.6135	-0.2066	1.7295	0.0080
	2.90	5.30	6.80	-0.6163	-0.1999	1.7343	0.0164
	2.90	5.90	6.20	-0.6283	-0.1746	1.7273	0.0494
	2.90	6.50	5.60	-0.6673	-0.0663	1.6858	0.1895
	2.90	7.10	5.00	-0.7742	0.1995	1.6060	0.5288

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FILE NAME                               :          ACG1
NUMBER OF POINTS                        :          50
APPARATUS USED                          :          CUB TRI
TYPE OF TEST                            :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)   :          7*7*7
INITIAL CONFINMENT STRESS (PSI)         :          5.0
INITIAL RELATIVE DENSITY DR ( % )      :          72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0076	0.0000	-0.0022	0.0084
	3.00	3.00	3.00	0.0125	0.0077	-0.0024	0.0149
	3.50	3.50	3.50	0.0174	0.0116	0.0022	0.0157
	4.00	4.00	4.00	0.0264	0.0196	0.0070	0.0193
	4.50	4.50	4.50	0.0173	0.0252	0.0127	0.0332
	5.00	5.00	5.00	0.0199	0.0306	0.0187	0.0362
A	5.00	5.00	5.00	0.0198	0.0285	0.0208	0.0000
	5.40	4.60	5.00	0.0272	0.0289	0.0211	0.0067
	5.80	4.20	5.00	0.0393	0.0269	0.0221	0.0188
	6.20	3.80	5.00	0.0692	0.0172	0.0236	0.0521
	6.60	3.40	5.00	0.1376	-0.0211	0.0313	0.1395
	7.00	3.00	5.00	0.3705	-0.1949	0.0493	0.4717
	7.40	2.60	5.00	0.7771	-0.6000	0.0818	1.1352
	7.80	2.20	5.00	1.4151	-1.3079	0.1406	2.2377
C	7.80	2.20	5.00	1.4198	-1.3095	0.1402	0.0000
	7.30	2.45	5.25	1.4261	-1.3085	0.1436	0.0044
	6.80	2.70	5.50	1.4244	-1.3096	0.1464	0.0083
	6.30	2.95	5.75	1.4254	-1.3095	0.1553	0.0163
	5.80	3.20	6.00	1.4195	-1.3132	0.1655	0.0305
	5.30	3.45	6.25	1.4011	-1.3074	0.1889	0.0649
	4.80	3.70	6.50	1.3597	-1.2894	0.2522	0.1506
	4.30	3.95	6.75	1.2883	-1.2574	0.3323	0.2770
	3.80	4.20	7.00	1.1471	-1.1776	0.4464	0.5033
	3.30	4.45	7.25	0.8850	-1.0550	0.6612	0.9163
	2.80	4.70	7.50	0.2662	-0.8340	1.1195	1.8405
	2.70	4.75	7.55	0.2679	-0.8335	1.1219	1.8421
	2.50	4.85	7.65	0.0334	-0.7667	1.2910	2.1847
G	2.50	4.85	7.65	0.0330	-0.7737	1.2888	0.0000
	2.75	5.10	7.15	0.0364	-0.7673	1.2928	0.0026
	3.00	5.35	6.65	0.0336	-0.7624	1.2951	0.0091
	3.25	5.60	6.15	0.0370	-0.7533	1.2928	0.0184
	3.50	5.85	5.65	0.0408	-0.7303	1.2891	0.0409
	3.75	6.10	5.15	0.0462	-0.6655	1.2537	0.1231
	4.00	6.35	4.65	0.0627	-0.5450	1.1828	0.2796
	4.25	6.60	4.15	0.0815	-0.3349	1.0529	0.5579
	4.50	6.85	3.65	0.1350	-0.0667	0.8154	0.9724
	4.75	7.10	3.15	0.2151	0.2853	0.4725	1.5442
	4.95	7.30	2.75	0.3026	0.7138	0.0150	2.2740
1	4.95	7.30	2.75	0.3045	0.7127	0.0125	0.0000

FILE NAME		(CONTINUED)				:	ACG1
	4.75	7.10	3.15	0.3005	0.7187	0.0133	0.0081
	4.50	6.85	3.65	0.3037	0.7176	0.0135	0.0117
	4.25	6.60	4.15	0.3040	0.7160	0.0177	0.0166
	4.00	6.35	4.65	0.3026	0.7165	0.0224	0.0216
	3.75	6.10	5.15	0.2960	0.7193	0.0524	0.0526
	3.50	5.85	5.65	0.2659	0.7197	0.1184	0.1329
	3.25	5.60	6.15	0.1830	0.7116	0.2514	0.3118
	3.00	5.35	6.65	0.0500	0.7008	0.4141	0.5545
	2.75	5.10	7.15	-0.1533	0.6693	0.6752	0.9380
G	2.50	4.85	7.65	-0.4278	0.6372	0.9916	1.4230

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FILE NAME                               :          ACG3
NUMBER OF POINTS                       :          52
APPARATUS USED                         :          CUB TRI
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :          7*7*7
INITIAL CONFINMENT STRESS (PSI)        :          5.0
INITIAL RELATIVE DENSITY DR ( % )      :          72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0052	0.0066	0.0005	0.0052
	3.00	3.00	3.00	0.0080	0.0158	0.0060	0.0105
	3.50	3.50	3.50	0.0072	0.0130	0.0155	0.0213
	4.00	4.00	4.00	0.0089	0.0168	0.0187	0.0231
	4.50	4.50	4.50	0.0126	0.0149	0.0254	0.0303
	5.00	5.00	5.00	0.0265	0.0230	0.0285	0.0392
A	5.00	5.00	5.00	0.0171	0.0209	0.0280	0.0000
	5.40	4.60	5.00	0.0276	0.0191	0.0285	0.0106
	5.80	4.20	5.00	0.0361	0.0219	0.0266	0.0193
	6.20	3.80	5.00	0.0540	0.0148	0.0264	0.0403
	6.60	3.40	5.00	0.1271	-0.0186	0.0271	0.1291
	7.00	3.00	5.00	0.3623	-0.2127	0.0562	0.4797
	7.40	2.60	5.00	0.8104	-0.6241	0.0990	1.1819
	7.80	2.20	5.00	1.4881	-1.3440	0.1615	2.3257
C	7.80	2.20	5.00	1.4927	-1.3413	0.1603	0.0000
	7.30	2.45	5.25	1.4969	-1.3423	0.1656	0.0055
	6.80	2.70	5.50	1.5001	-1.3425	0.1708	0.0099
	6.30	2.45	5.75	1.5007	-1.3402	0.1752	0.0130
	5.80	3.20	6.00	1.4895	-1.3464	0.1868	0.0326
	5.30	3.45	6.25	1.4702	-1.3398	0.2090	0.0669
	4.80	3.70	6.50	1.4322	-1.3253	0.2761	0.1526
	4.30	3.95	6.75	1.3332	-1.2854	0.3908	0.3298
	3.80	4.20	7.00	1.1593	-1.2149	0.5599	0.6181
	3.30	4.45	7.25	0.8665	-1.1255	0.8060	1.0708
	2.80	4.70	7.50	0.4367	-0.9652	1.1384	1.7236
	2.50	4.85	7.65	0.0165	-0.8400	1.4394	2.3376
G	2.50	4.85	7.65	0.0149	-0.8357	1.4366	0.0000
	3.00	4.60	7.40	0.0091	-0.8438	1.4391	0.0091
	3.50	4.35	7.15	0.0213	-0.8417	1.4397	0.0194
	4.00	4.10	6.90	0.0263	-0.8416	1.4405	0.0237
	4.50	3.85	6.65	0.0432	-0.8428	1.4432	0.0394
	5.00	3.60	6.40	0.0718	-0.8437	1.4422	0.0671
	5.50	3.35	6.15	0.1542	-0.8640	1.4409	0.1564
	6.00	3.10	5.90	0.2803	-0.9256	1.4396	0.3129
	6.50	2.85	5.65	0.4667	-1.0631	1.4296	0.5793
	7.00	2.60	5.40	0.7315	-1.2693	1.4093	0.9668
	7.50	2.35	5.15	1.1231	-1.6106	1.3713	1.5681
	8.00	2.10	4.90	1.6688	-2.1459	1.3332	2.4517
3	8.00	2.10	4.90	1.6700	-2.1507	1.3305	0.0000

FILE NAME	(CONTINUED)	:	ACG3
7.50	2.35	5.15	1.6718 -2.1481 1.3321 0.0009
7.00	2.60	5.40	1.6771 -2.1475 1.3290 0.0077
6.50	2.85	5.65	1.6716 -2.1497 1.3292 0.0124
6.00	3.10	5.90	1.6734 -2.1485 1.3322 0.0139
5.50	3.35	6.15	1.6543 -2.1441 1.3342 0.0351
5.00	3.60	6.40	1.6216 -2.1262 1.3444 0.0796
4.50	3.85	6.65	1.5701 -2.0891 1.3861 0.1653
4.00	4.10	6.90	1.4506 -1.9964 1.4739 0.3631
3.50	4.35	7.15	1.2464 -1.8782 1.6072 0.6744
3.00	4.60	7.40	0.9053 -1.7048 1.8002 1.1690
2.50	4.85	7.65	0.3489 -1.4765 2.1434 1.9685
G 2.50	4.85	7.65	0.3484 -1.4785 2.1417 0.0000

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FILE NAME                               : ACG4
NUMBER OF POINTS                       : 50
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0031	0.0088	0.0096	0.0058
	3.00	3.00	3.00	0.0071	0.0148	0.0120	0.0088
	3.50	3.50	3.50	0.0164	0.0177	0.0175	0.0141
	4.00	4.00	4.00	0.0216	0.0237	0.0219	0.0154
	4.50	4.50	4.50	0.0240	0.0222	0.0249	0.0194
	5.00	5.00	5.00	0.0275	0.0248	0.0336	0.0247
A	5.00	5.00	5.00	0.0287	0.0211	0.0295	0.0000
	5.40	4.60	5.00	0.0292	0.0249	0.0324	0.0028
	5.80	4.20	5.00	0.0417	0.0237	0.0347	0.0143
	6.20	3.80	5.00	0.0668	0.0189	0.0387	0.0394
	6.60	3.40	5.00	0.1122	-0.0064	0.0450	0.0973
	7.00	3.00	5.00	0.3623	-0.1927	0.0679	0.4537
	7.40	2.60	5.00	0.7703	-0.5824	0.1134	1.1060
	7.80	2.20	5.00	1.4996	-1.3696	0.1942	2.3485
C	7.80	2.20	5.00	1.4987	-1.3706	0.1920	0.0000
	7.30	2.45	5.25	1.4997	-1.3722	0.1967	0.0051
	6.80	2.70	5.50	1.5019	-1.3770	0.2021	0.0137
	6.30	2.95	5.75	1.5013	-1.3710	0.2093	0.0205
	5.80	3.20	6.00	1.4951	-1.3720	0.2184	0.0332
	5.30	3.45	6.25	1.4846	-1.3633	0.2359	0.0566
	4.80	3.70	6.50	1.4505	-1.3489	0.2927	0.1309
	4.30	3.95	6.75	1.3623	-1.2983	0.4221	0.3108
	3.80	4.20	7.00	1.1669	-1.2202	0.5921	0.6211
	3.30	4.45	7.25	0.8686	-1.1035	0.8361	1.0842
	2.80	4.70	7.50	0.3993	-0.9331	1.1874	1.7883
	2.50	4.85	7.65	-0.0125	-0.8119	1.4919	2.3959
G	2.50	4.85	7.65	-0.0084	-0.8141	1.4898	0.0000
	2.80	4.55	7.65	-0.0102	-0.8137	1.4947	0.0056
	3.10	4.24	7.65	-0.0104	-0.8174	1.4990	0.0121
	3.40	3.95	7.65	-0.0113	-0.8158	1.5008	0.0145
	3.70	3.65	7.65	-0.0068	-0.8152	1.5024	0.0178
	4.00	3.35	7.65	-0.0022	-0.8210	1.5098	0.0292
	4.30	3.05	7.65	0.0197	-0.8505	1.5452	0.0852
	4.60	2.75	7.65	0.0641	-0.9686	1.6411	0.2676
	4.90	2.45	7.65	0.1247	-1.1455	1.7535	0.5194
	5.20	2.15	7.65	0.2395	-1.4830	1.9464	0.9871
	5.50	1.85	7.65	0.4314	-2.0640	2.2503	1.7739
	5.60	1.75	7.65	0.4934	-2.2673	2.3489	2.0429
4	5.60	1.75	7.65	0.4930	-2.2684	2.3471	0.0000

FILE NAME	(CONTINUED)	:	ACG4
5.20	2.15	7.65	0.4960 -2.2695 2.3513 0.0045
4.90	2.45	7.65	0.4977 -2.2669 2.3517 0.0063
4.60	2.75	7.65	0.4931 -2.2654 2.3543 0.0126
4.30	3.05	7.65	0.4933 -2.2666 2.3590 0.0176
4.00	3.35	7.65	0.4915 -2.2576 2.3615 0.0265
3.70	3.65	7.65	0.4706 -2.2397 2.3712 0.0598
3.40	3.95	7.65	0.4203 -2.1954 2.3959 0.1414
3.10	4.25	7.65	0.3086 -2.1081 2.4517 0.3160
2.80	4.55	7.65	0.1315 -1.9824 2.5296 0.5819
G 2.50	4.85	7.65	-0.1641 -1.7826 2.6666 1.0224

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FILE NAME                               : ACG5
NUMBER OF POINTS                       : 46
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0020	0.0043	-0.0021	0.0053
	3.00	3.00	3.00	0.0057	0.0066	0.0082	0.0123
	3.50	3.50	3.50	0.0071	0.0078	0.0129	0.0155
	4.00	4.00	4.00	0.0106	0.0115	0.0140	0.0179
	4.50	4.50	4.50	0.0159	0.0182	0.0195	0.0192
	5.00	5.00	5.00	0.0125	0.0242	0.0289	0.0300
A	5.00	5.00	5.00	0.0073	0.0221	0.0280	0.0000
	5.40	4.60	5.00	0.0190	0.0216	0.0292	0.0109
	5.80	4.20	5.00	0.0333	0.0227	0.0336	0.0221
	6.20	3.80	5.00	0.0619	0.0140	0.0347	0.0536
	6.60	3.40	5.00	0.1327	-0.0220	0.0439	0.1412
	7.00	3.00	5.00	0.3696	-0.2131	0.0727	0.4907
	7.40	2.60	5.00	0.7829	-0.6248	0.1177	1.1656
	7.80	2.20	5.00	1.4825	-1.4120	0.2017	2.3855
C	7.80	2.20	5.00	1.4802	-1.4147	0.2045	0.0000
	7.30	2.45	5.25	1.4801	-1.4141	0.2102	0.0051
	6.80	2.70	5.50	1.4836	-1.4174	0.2170	0.0136
	6.30	2.95	5.75	1.4830	-1.4140	0.2266	0.0219
	5.80	3.20	6.00	1.4786	-1.4163	0.2347	0.0328
	5.30	3.45	6.25	1.4640	-1.4147	0.2566	0.0627
	4.80	3.70	6.50	1.4232	-1.3989	0.3231	0.1504
	4.30	3.95	6.75	1.3319	-1.3499	0.4301	0.3168
	3.80	4.20	7.00	1.1196	-1.2501	0.6252	0.6648
	3.30	4.45	7.25	0.8187	-1.1378	0.8795	1.1359
	2.80	4.70	7.50	0.3097	-0.9630	1.2623	1.8978
	2.50	4.85	7.65	-0.1233	-0.8426	1.6105	2.5538
G	2.50	4.85	7.65	-0.1266	-0.8436	1.6049	0.0000
	2.65	4.55	7.80	-0.1215	-0.8420	1.6107	0.0036
	2.80	4.25	7.95	-0.1233	-0.8398	1.6176	0.0108
	2.95	3.95	8.10	-0.1226	-0.8430	1.6296	0.0237
	3.10	3.65	8.25	-0.1594	-0.8574	1.7205	0.1351
	3.25	3.35	8.40	-0.2357	-0.9553	1.9204	0.4062
	3.40	3.05	8.55	-0.2924	-1.0982	2.0985	0.6776
	3.55	2.75	8.70	-0.3726	-1.3892	2.4480	1.2105
	3.70	2.45	8.85	-0.4616	-1.7998	2.8560	1.8840
	3.75	2.35	8.90	-0.4947	-2.0222	3.0719	2.2430
5	3.75	2.35	8.90	-0.4958	-2.0210	3.0719	0.0000
	3.55	2.75	8.70	-0.4970	-2.0205	3.0754	0.0039
	3.40	3.05	8.55	-0.4991	-2.0216	3.0759	0.0060

FILE NAME (CONTINUED)					:	ACG5
	3.25	3.35	8.40	-0.5016	-2.0241	3.0761 0.0085
	3.10	3.65	8.25	-0.5139	-2.0184	3.0812 0.0253
	2.95	3.95	8.10	-0.5190	-2.0077	3.0833 0.0381
	2.80	4.25	7.95	-0.5671	-1.9956	3.0970 0.0956
	2.65	4.55	7.80	-0.6344	-1.9568	3.1203 0.1892
G	2.50	4.85	7.65	-0.7641	-1.8697	3.1592 0.3752

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FILE NAME                               : ACH1
NUMBER OF POINTS                       : 45
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0040	0.0037	-0.0012	0.0047
	3.00	3.00	3.00	0.0034	0.0079	0.0102	0.0145
	3.50	3.50	3.50	0.0096	0.0110	0.0125	0.0179
	4.00	4.00	4.00	0.0160	0.0131	0.0121	0.0235
	4.50	4.50	4.50	0.0241	0.0109	0.0187	0.0326
	5.00	5.00	5.00	0.0207	0.0133	0.0203	0.0378
A	5.00	5.00	5.00	0.0191	0.0171	0.0203	0.0000
	5.40	4.60	5.00	0.0294	0.0160	0.0223	0.0096
	5.80	4.20	5.00	0.0356	0.0159	0.0230	0.0151
	6.20	3.80	5.00	0.0509	0.0159	0.0274	0.0280
	6.60	3.40	5.00	0.1117	-0.0337	0.0414	0.1185
	7.00	3.00	5.00	0.3589	-0.2443	0.0745	0.4926
	7.40	2.60	5.00	0.8792	-0.7281	0.1295	1.3132
	7.80	2.20	5.00	1.6566	-1.6019	0.2569	2.6714
C	7.80	2.20	5.00	1.6569	-1.6019	0.2609	0.0000
	7.40	2.20	5.40	1.6616	-1.6051	0.2686	0.0092
	7.00	2.20	5.80	1.6589	-1.6125	0.2791	0.0243
	6.60	2.20	6.20	1.6594	-1.6227	0.2940	0.0449
	6.20	2.20	6.60	1.6649	-1.7441	0.4025	0.2330
	5.80	2.20	7.00	1.6557	-1.9333	0.6177	0.5638
	5.40	2.20	7.40	1.6494	-2.1877	0.8981	1.0008
	5.00	2.20	7.80	1.5974	-2.4278	1.2221	1.4698
	4.60	2.20	8.20	1.4806	-2.9309	1.8326	2.3933
H	4.60	2.20	8.20	1.4794	-2.9296	1.8330	0.0000
	4.60	2.70	7.70	1.4819	-2.9270	1.8362	0.0025
	4.60	3.20	7.20	1.4580	-2.3319	1.8511	0.0325
	4.60	3.70	6.70	1.4569	-2.9187	1.8503	0.0459
	4.60	4.20	6.20	1.4525	-2.8511	1.8362	0.1187
	4.60	4.70	5.70	1.4254	-2.6563	1.7913	0.3368
	4.60	5.20	5.20	1.3540	-2.3815	1.7171	0.6645
	4.60	5.70	4.70	1.2924	-1.9987	1.5886	1.1183
	4.60	6.20	4.20	1.1929	-1.5115	1.3876	1.7251
	4.60	6.50	3.90	1.1632	-1.2129	1.2245	2.1130
1	4.60	6.50	3.90	1.1599	-1.2117	1.2240	0.0000
	4.60	6.20	4.20	1.1599	-1.2080	1.2254	0.0031
	4.60	5.70	4.70	1.1599	-1.2119	1.2246	0.0064
	4.60	5.20	5.20	1.1529	-1.2075	1.2273	0.0165
	4.60	4.70	5.70	1.1490	-1.2075	1.2346	0.0258
	4.60	4.20	6.20	1.1524	-1.2212	1.2457	0.0466
	4.60	3.70	6.70	1.1450	-1.2599	1.3120	0.1345
	4.60	3.20	7.20	1.1411	-1.3664	1.4212	0.3108
	4.60	2.70	7.70	1.1133	-1.5787	1.7383	0.8255
	4.60	2.20	8.20	1.1022	-2.2392	2.2077	1.6671
H	4.60	2.20	8.20	1.1062	-2.2409	2.2073	0.0000

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FILE NAME                               : ACH2
NUMBER OF POINTS                       : 56
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINEMENT STRESS (PSI)       : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0003	0.0017	0.0041	0.0031
	3.00	3.00	3.00	0.0055	0.0034	0.0097	0.0066
	3.50	3.50	3.50	0.0098	0.0123	0.0220	0.0132
	4.00	4.00	4.00	0.0124	0.0173	0.0249	0.0153
	4.50	4.50	4.50	0.0220	0.0202	0.0288	0.0212
	5.00	5.00	5.00	0.0222	0.0197	0.0317	0.0242
A	5.00	5.00	5.00	0.0163	0.0201	0.0305	0.0000
	5.40	4.60	5.00	0.0298	0.0163	0.0323	0.0144
	5.80	4.20	5.00	0.0391	0.0229	0.0339	0.0207
	6.20	3.80	5.00	0.0615	0.0164	0.0350	0.0452
	6.60	3.40	5.00	0.1492	-0.0165	0.0403	0.1458
	7.00	3.00	5.00	0.4151	-0.1981	0.0554	0.5121
	7.40	0.60	5.00	0.8902	-0.6462	0.0974	1.2664
	7.80	2.20	5.00	1.5834	-1.3694	0.1431	2.4244
C	7.80	2.20	5.00	1.5842	-1.3650	0.1427	0.0000
	7.40	2.20	5.40	1.5923	-1.3769	0.1537	0.0204
	7.00	2.20	5.80	1.5941	-1.3816	0.1625	0.0314
	6.60	2.20	6.20	1.5929	-1.4115	0.1950	0.0824
	6.20	2.20	6.60	1.5925	-1.4738	0.2604	0.1867
	5.80	2.20	7.00	1.5874	-1.5964	0.4092	0.4090
	5.40	2.20	7.40	1.5772	-1.8123	0.6535	0.7854
	5.00	2.20	7.80	1.5311	-2.0803	0.9918	1.2864
	4.60	2.20	8.20	1.4166	-2.4249	1.4578	1.9685
H	4.60	2.20	8.20	1.4177	-2.4232	1.4565	0.0000
	4.70	2.30	8.00	1.4184	-2.4253	1.4607	0.0051
	4.80	2.40	7.80	1.4223	-2.4237	1.4601	0.0088
	4.90	2.50	7.60	1.4139	-2.4226	1.4607	0.0175
	5.00	2.60	7.40	1.4195	-2.4242	1.4592	0.0243
	5.20	2.80	7.00	1.4156	-2.4260	1.4657	0.0332
	5.40	3.00	6.60	1.4116	-2.4245	1.4733	0.0427
	5.60	3.20	6.20	1.4122	-2.4207	1.4726	0.0465
	5.80	3.40	5.80	1.4183	-2.4123	1.4632	0.0623
	6.00	3.60	5.40	1.4319	-2.3992	1.4447	0.0923
	6.20	3.80	5.00	1.4573	-2.3575	1.3957	0.1712
	6.40	4.00	4.60	1.5105	-2.2676	1.3242	0.3094
	6.60	4.20	4.20	1.5819	-2.1352	1.2020	0.5265
	6.80	4.40	3.80	1.6948	-1.9903	1.0261	0.8150
	7.00	4.60	3.40	1.8613	-1.7722	0.7592	1.2500
	7.20	4.80	3.00	2.0964	-1.5471	0.3852	1.8196

FILE NAME	(CONTINUED)						ACH2
	7.40	5.00	2.60	2.3551	-1.3208	-0.0428	2.4523
2	7.40	5.00	2.60	2.3572	-1.3197	-0.0437	0.0000
	7.20	4.80	3.00	2.3564	-1.3142	-0.0411	0.0051
	7.00	4.60	3.40	2.3587	-1.3169	-0.0442	0.0100
	6.80	4.40	3.80	2.3543	-1.3175	-0.0402	0.0169
	6.60	4.20	4.20	2.3517	-1.3191	-0.0365	0.0224
	6.40	4.00	4.60	2.3543	-1.3159	-0.0266	0.0290
	6.20	3.80	5.00	2.3501	-1.3244	-0.0041	0.0564
	6.00	3.60	5.40	2.3456	-1.3264	0.0554	0.1156
	5.80	3.40	5.80	2.3359	-1.3630	0.1510	0.2297
	5.60	3.20	6.20	2.3093	-1.4370	0.2772	0.4007
	5.40	3.00	6.60	2.2680	-1.5387	0.4459	0.6324
	5.20	2.80	7.00	2.2189	-1.6719	0.6438	0.9134
	5.00	2.60	7.40	2.1563	-1.8568	0.8964	1.2820
	4.80	2.40	7.80	2.0700	-2.1064	1.2079	1.7533
H	4.60	2.20	8.20	1.9501	-2.5210	1.6696	2.4815

FILE NAME	:	ACH3
NUMBER OF POINTS	:	53
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENSIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINEMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0100	0.0065	0.0054	0.0040
	3.00	3.00	3.00	0.0086	0.0046	0.0088	0.0088
	3.50	3.50	3.50	0.0106	0.0095	0.0154	0.0126
	4.00	4.00	4.00	0.0141	0.0144	0.0185	0.0142
	4.50	4.50	4.50	0.0188	0.0149	0.0194	0.0180
	5.00	5.00	5.00	0.0218	0.0204	0.0226	0.0203
A	5.00	5.00	5.00	0.0170	0.0200	0.0229	0.0000
	5.40	4.60	5.00	0.0250	0.0220	0.0293	0.0051
	5.80	4.20	5.00	0.0315	0.0194	0.0279	0.0131
	6.20	3.80	5.00	0.0529	0.0209	0.0306	0.0313
	6.60	3.40	5.00	0.1097	-0.0012	0.0336	0.0972
	7.00	3.00	5.00	0.3428	-0.1627	0.0513	0.4198
	7.40	2.60	5.00	0.7293	-0.5114	0.0707	1.0201
	7.80	2.20	5.00	1.3884	-1.2114	0.1151	2.1315
C	7.80	2.20	5.00	1.3872	-1.2140	0.1169	0.0000
	7.40	2.20	5.40	1.3884	-1.2274	0.1227	0.0163
	7.00	2.20	5.80	1.3827	-1.2214	0.1290	0.0276
	6.60	2.20	6.20	1.3897	-1.2433	0.1469	0.0612
	6.20	2.20	6.60	1.3874	-1.3091	0.2161	0.1714
	5.80	2.20	7.00	1.3879	-1.4205	0.3341	0.3587
	5.40	2.20	7.40	1.3721	-1.5711	0.5195	0.6349
	5.00	2.20	7.80	1.3303	-1.8326	0.8490	1.1226
	4.60	2.20	8.20	1.2234	-2.1146	1.2335	1.6869
H	4.60	2.20	8.20	1.2273	-2.1156	1.2353	0.0000
	4.90	2.20	7.90	1.2263	-2.1168	1.2362	0.0019
	5.20	2.20	7.60	1.2263	-2.1184	1.2354	0.0032
	5.50	2.20	7.30	1.2262	-2.1214	1.2375	0.0074
	5.80	2.20	7.00	1.2288	-2.1223	1.2379	0.0103
	6.10	2.20	6.70	1.2324	-2.1293	1.2426	0.0208
	6.40	2.20	6.40	1.2414	-2.1294	1.2460	0.0283
	6.70	2.20	6.10	1.2665	-2.1363	1.2435	0.0566
	7.00	2.20	5.80	1.3010	-2.1613	1.2295	0.1084
	7.30	2.20	5.50	1.3530	-2.1960	1.2149	0.1824
	7.60	2.20	5.20	1.4872	-2.2828	1.1769	0.3720
	7.90	2.20	4.90	1.6940	-2.4080	1.1276	0.6561
	8.20	2.20	4.60	2.0173	-2.6179	1.0381	1.1128
	8.50	2.20	4.30	2.4270	-2.8811	0.8960	1.6924
	8.65	2.20	4.15	2.7983	-3.1239	0.7444	2.2396
3	8.65	2.20	4.15	2.7959	-3.1246	0.7471	0.0000

FILE NAME	(CONTINUED)	:	ACH3
8.20	2.20	4.60	2.7984 -3.1272 0.7470 0.0041
7.90	2.20	4.90	2.7960 -3.1273 0.7461 0.0060
7.60	2.20	5.20	2.8007 -3.1261 0.7478 0.0090
7.30	2.20	5.50	2.8024 -3.1316 0.7427 0.0157
7.00	2.20	5.80	2.8018 -3.1337 0.7456 0.0200
6.70	2.20	6.10	2.7990 -3.1390 0.7538 0.0317
6.40	2.20	6.40	2.7996 -3.1511 0.7796 0.0632
6.10	2.20	6.70	2.7728 -3.1757 0.8146 0.1205
5.80	2.20	7.00	2.7445 -3.2144 0.8883 0.2219
5.50	2.20	7.30	2.7033 -3.2720 1.0236 0.3965
5.20	2.20	7.60	2.6399 -3.3455 1.1730 0.6020
4.90	2.20	7.90	2.5428 -3.4640 1.4099 0.9275
H 4.60	2.20	8.20	2.3997 -3.6136 1.7049 1.3437

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FILE NAME                               : ACH4
NUMBER OF POINTS                       : 44
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0059	-0.0025	-0.0018	0.0076
	3.00	3.00	3.00	0.0075	0.0042	0.0029	0.0118
	3.50	3.50	3.50	0.0090	0.0086	0.0119	0.0179
	4.00	4.00	4.00	0.0098	0.0099	0.0192	0.0239
	4.50	4.50	4.50	0.0188	0.0141	0.0163	0.0337
	5.00	5.00	5.00	0.0220	0.0182	0.0214	0.0352
A	5.00	5.00	5.00	0.0221	0.0159	0.0219	0.0000
	5.40	4.60	5.00	0.0244	0.0170	0.0247	0.0014
	5.80	4.20	5.00	0.0355	0.0192	0.0240	0.0115
	6.20	3.80	5.00	0.0561	0.0107	0.0257	0.0356
	6.60	3.40	5.00	0.1163	-0.0044	0.0313	0.0991
	7.00	3.00	5.00	0.3240	-0.1607	0.0545	0.3963
	7.40	2.60	5.00	0.7925	-0.6013	0.0948	1.1390
	7.80	2.20	5.00	1.4423	-1.2889	0.1452	2.2329
C	7.80	2.20	5.00	1.4459	-1.2922	0.1488	0.0000
	7.40	2.20	5.40	1.4435	-1.2938	0.1592	0.0117
	7.00	2.20	5.80	1.4476	-1.3003	0.1658	0.0231
	6.60	2.20	6.20	1.4418	-1.3173	0.1912	0.0590
	6.20	2.20	6.60	1.4435	-1.3850	0.2592	0.1697
	5.80	2.20	7.00	1.4412	-1.5017	0.3952	0.3764
	5.40	2.20	7.40	1.4338	-1.7042	0.6201	0.7258
	5.00	2.20	7.80	1.3831	-1.9719	0.9592	1.2279
	4.60	2.20	8.20	1.2848	-2.2873	1.3667	1.8336
H	4.60	2.20	8.20	1.2809	-2.2867	1.3723	0.0000
	4.80	2.10	8.10	1.2812	-2.2927	1.3743	0.0070
	5.00	2.00	8.00	1.2847	-2.2938	1.3752	0.0106
	5.20	1.90	7.90	1.2926	-2.4297	1.4528	0.1883
	5.40	1.80	7.80	1.2976	-2.5139	1.5155	0.3093
	5.60	1.70	7.70	1.3206	-2.6350	1.5887	0.4740
	5.80	1.60	7.60	1.3613	-2.8764	1.7025	0.7803
	6.00	1.50	7.50	1.4241	-3.1149	1.8353	1.1024
	6.20	1.40	7.40	1.5757	-3.5547	2.0144	1.6735
	6.40	1.30	7.30	1.8026	-4.2083	2.2768	2.5208
4	6.40	1.30	7.30	1.8038	-4.2077	2.2781	0.0000
	6.20	1.40	7.40	1.8041	-4.2136	2.2849	0.0104
	6.00	1.50	7.50	1.8021	-4.2157	2.2860	0.0133
	5.80	1.60	7.60	1.8074	-4.2157	2.2856	0.0184
	5.60	1.70	7.70	1.8121	-4.2115	2.2936	0.0218
	5.40	1.80	7.80	1.8053	-4.2147	2.3005	0.0334
	5.20	1.90	7.90	1.8031	-4.2140	2.3075	0.0411
	5.00	2.00	8.00	1.8018	-4.2215	2.3218	0.0595
	4.80	2.10	8.10	1.7928	-4.2210	2.3373	0.0797
H	4.60	2.20	8.20	1.7720	-4.2264	2.3812	0.1348

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FILE NAME                               : ACH5
NUMBER OF POINTS                       : 39
APPARATUS USED                         : CUB TR1
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	-0.0020	0.0027	-0.0032	0.0050
	3.00	3.00	3.00	0.0020	0.0018	-0.0010	0.0091
	3.50	3.50	3.50	0.0005	0.0064	0.0060	0.0162
	4.00	4.00	4.00	0.0111	0.0100	0.0114	0.0221
	4.50	4.50	4.50	0.0118	0.0106	0.0147	0.0246
	5.00	5.00	5.00	0.0172	0.0162	0.0185	0.0262
A	5.00	5.00	5.00	0.0138	0.0129	0.0180	0.0000
	5.40	4.60	5.00	0.0196	0.0129	0.0220	0.0048
	5.80	4.20	5.00	0.0231	0.0141	0.0223	0.0076
	6.20	3.80	5.00	0.0474	0.0131	0.0246	0.0301
	6.60	3.40	5.00	0.1160	-0.0122	0.0332	0.1077
	7.00	3.00	5.00	0.3381	-0.1782	0.0540	0.4247
	7.40	2.60	5.00	0.8171	-0.6076	0.1117	1.1670
	7.80	2.20	5.00	1.5381	-1.3861	0.2089	2.3971
C	7.80	2.20	5.00	1.5369	-1.3883	0.2099	0.0000
	7.40	2.20	5.40	1.5331	-1.3857	0.2105	0.0054
	7.00	2.20	5.80	1.5371	-1.3959	0.2222	0.0235
	6.60	2.20	6.20	1.5388	-1.4160	0.2459	0.0593
	6.20	2.20	6.60	1.5364	-1.4765	0.3367	0.1840
	5.80	2.20	7.00	1.5403	-1.6482	0.5217	0.4753
	5.40	2.20	7.40	1.5262	-1.8385	0.7519	0.8201
	5.00	2.20	7.80	1.4754	-2.1170	1.0981	1.3363
	4.60	2.20	8.20	1.3707	-2.4370	1.5438	1.9812
H	4.60	2.20	8.20	1.3696	-2.4392	1.5444	0.0000
	4.70	2.10	8.20	1.3389	-2.6121	1.6979	0.2672
	4.80	2.00	8.20	1.3406	-2.6312	1.7166	0.2982
	4.90	1.90	8.20	1.3333	-2.8444	1.8919	0.6156
	5.00	1.80	8.20	1.3336	-3.0888	2.0630	0.9566
	5.10	1.70	8.20	1.3338	-3.3473	2.2656	1.3340
	5.20	1.60	8.20	1.3421	-3.7108	2.5112	1.8354
	5.25	1.55	8.20	1.3611	-3.9099	2.6422	2.1095
5	5.25	1.55	8.20	1.3521	-3.9089	2.6419	0.0000
	5.10	1.70	3.20	1.3574	-3.9062	2.6439	0.0028
	5.00	1.80	8.20	1.3567	-3.9089	2.6444	0.0055
	4.90	1.90	8.20	1.3549	-3.9074	2.6481	0.0100
	4.80	2.00	3.20	1.3577	-3.9052	2.6465	0.0139
	4.70	2.10	8.20	1.3561	-3.9052	2.6471	0.0158
H	4.60	2.20	8.20	1.3555	-3.9020	2.6465	0.0194

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FILE NAME                               :HYDROSTATIC.1C
NUMBER OF POINTS                        :          66
APPARATUS USED                          :          CUB TRI
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)   :          7*7*7
MAXIMUM CONFINMENT STRESS (PSI)         :          25.0
INITIAL RELATIVE DENSITY DR ( % )       :          72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
O	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0035	0.0048	0.0025	0.0019
	3.00	3.00	3.00	0.0081	0.0146	0.0160	0.0092
	3.50	3.50	3.50	0.0166	0.0120	0.0246	0.0197
	4.00	4.00	4.00	0.0120	0.0173	0.0246	0.0278
	4.50	4.50	4.50	0.0213	0.0229	0.0338	0.0313
A	5.00	5.00	5.00	0.0264	0.0252	0.0370	0.0335
	5.50	5.50	5.50	0.0280	0.0225	0.0403	0.0387
	6.00	6.00	6.00	0.0303	0.0285	0.0447	0.0417
	6.50	6.50	6.50	0.0355	0.0337	0.0451	0.0463
	7.00	7.00	7.00	0.0338	0.0355	0.0506	0.0522
	7.50	7.50	7.50	0.0384	0.0377	0.0531	0.0545
	8.00	8.00	8.00	0.0380	0.0438	0.0587	0.0604
	8.50	8.50	8.50	0.0418	0.0481	0.0610	0.0622
	9.00	9.00	9.00	0.0465	0.0465	0.0616	0.0673
	9.50	9.50	9.50	0.0488	0.0491	0.0631	0.0683
A*	10.00	10.00	10.00	0.0401	0.0535	0.0692	0.0815
	10.00	10.00	10.00	0.0447	0.0510	0.0703	0.0000
	9.00	9.00	9.00	0.0470	0.0552	0.0705	0.0033
	8.00	8.00	8.00	0.0512	0.0487	0.0712	0.0123
	7.00	7.00	7.00	0.0460	0.0435	0.0690	0.0150
A	6.00	6.00	6.00	0.0477	0.0432	0.0602	0.0241
	5.00	5.00	5.00	0.0462	0.0387	0.0535	0.0284
	6.00	6.00	6.00	0.0415	0.0420	0.0532	0.0350
	7.00	7.00	7.00	0.0455	0.0492	0.0609	0.0381
	8.00	8.00	8.00	0.0532	0.0532	0.0627	0.0429
	9.00	9.00	9.00	0.0521	0.0509	0.0676	0.0492
A*	10.00	10.00	10.00	0.0502	0.0533	0.0725	0.0548
	11.00	11.00	11.00	0.0582	0.0585	0.0763	0.0582
	12.00	12.00	12.00	0.0577	0.0652	0.0797	0.0641
	13.00	13.00	13.00	0.0640	0.0696	0.0845	0.0657
	14.00	14.00	14.00	0.0658	0.0707	0.0879	0.0677
	15.00	15.00	15.00	0.0671	0.0750	0.0898	0.0704
	16.00	16.00	16.00	0.0727	0.0798	0.0956	0.0713
	17.00	17.00	17.00	0.0681	0.0793	0.0968	0.0761
	18.00	18.00	18.00	0.0760	0.0857	0.1022	0.0781
	19.00	19.00	19.00	0.0805	0.0913	0.1069	0.0790
	20.00	20.00	20.00	0.0835	0.0923	0.1128	0.0830
	21.00	21.00	21.00	0.0848	0.0962	0.1171	0.0857
	22.00	22.00	22.00	0.0860	0.1010	0.1210	0.0887

FILE NAME (CONTINUED) :HYDROSTATIC.1C

	23.00	23.00	23.00	0.0877	0.1027	0.1252	0.0911
	24.00	24.00	24.00	0.0906	0.1081	0.1299	0.0932
	25.00	25.00	25.00	0.0940	0.1082	0.1327	0.0959
	24.00	24.00	24.00	0.0981	0.1109	0.1304	0.1015
	23.00	23.00	23.00	0.0934	0.1077	0.1355	0.1101
	22.00	22.00	22.00	0.0946	0.1072	0.1293	0.1164
	21.00	21.00	21.00	0.0990	0.1061	0.1329	0.1212
	20.00	20.00	20.00	0.0956	0.1057	0.1333	0.1245
	19.00	19.00	19.00	0.0981	0.1061	0.1306	0.1287
	18.00	18.00	18.00	0.0957	0.1072	0.1312	0.1317
	17.00	17.00	17.00	0.0923	0.1020	0.1261	0.1333
	16.00	16.00	16.00	0.0941	0.0962	0.1214	0.1400
	15.00	15.00	15.00	0.0935	0.0903	0.1071	0.1513
	14.00	14.00	14.00	0.0896	0.0913	0.1001	0.1579
	13.00	13.00	13.00	0.0904	0.0836	0.0969	0.1648
	12.00	12.00	12.00	0.0830	0.0803	0.0952	0.1695
	11.00	11.00	11.00	0.0786	0.0807	0.0937	0.1735
A*	10.00	10.00	10.00	0.0749	0.0743	0.0861	0.1768
	9.00	9.00	9.00	0.0753	0.0716	0.0854	0.1794
	8.00	8.00	8.00	0.0716	0.0713	0.0818	0.1826
	7.00	7.00	7.00	0.0655	0.0690	0.0804	0.1866
	6.00	6.00	6.00	0.0604	0.0670	0.0794	0.1900
A	5.00	5.00	5.00	0.0492	0.0642	0.0788	0.1992
	4.00	4.00	4.00	0.0511	0.0611	0.0749	0.2043
	3.00	3.00	3.00	0.0441	0.0596	0.0747	0.2101
O	2.00	2.00	2.00	0.0356	0.0525	0.0844	0.2266

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FILE NAME                               : A*CI1.1C
NUMBER OF POINTS                       : 50
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 10.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0410	0.0117	0.0083	0.0293
	3.00	3.00	3.00	0.0486	0.0230	0.0157	0.0329
	3.50	3.50	3.50	0.0481	0.0323	0.0219	0.0412
	4.00	4.00	4.00	0.0526	0.0405	0.0270	0.0443
	4.50	4.50	4.50	0.0527	0.0414	0.0326	0.0493
	5.00	5.00	5.00	0.0590	0.0507	0.0408	0.0517
	5.50	5.50	5.50	0.0584	0.0511	0.0422	0.0534
	6.00	6.00	6.00	0.0659	0.0577	0.0501	0.0545
	6.50	6.50	6.50	0.0666	0.0615	0.0511	0.0573
	7.00	7.00	7.00	0.0698	0.0669	0.0586	0.0608
	7.50	7.50	7.50	0.0781	0.0719	0.0624	0.0646
	8.00	8.00	8.00	0.0791	0.0774	0.0618	0.0698
	8.50	8.50	8.50	0.0803	0.0838	0.0652	0.0740
	9.00	9.00	9.00	0.0816	0.0842	0.0694	0.0773
	9.50	9.50	9.50	0.0866	0.0872	0.0726	0.0792
	10.00	10.00	10.00	0.0811	0.0893	0.0749	0.0865
A*	10.00	10.00	10.00	0.0855	0.0870	0.0786	0.0000
	10.40	9.60	10.00	0.0943	0.0925	0.0752	0.0103
	10.80	9.20	10.00	0.1001	0.0925	0.0769	0.0152
	11.20	8.80	10.00	0.1030	0.0919	0.0744	0.0196
	11.60	8.40	10.00	0.1154	0.0882	0.0837	0.0336
	12.00	8.00	10.00	0.1523	0.0757	0.0923	0.0740
	12.40	7.60	10.00	0.2928	0.0018	0.1137	0.2495
	12.80	7.20	10.00	0.4037	-0.0771	0.1278	0.4044
	13.20	6.80	10.00	0.5964	-0.2327	0.1541	0.6888
	13.60	6.40	10.00	0.8474	-0.4358	0.1835	1.0597
	14.00	6.00	10.00	1.2020	-0.7551	0.2296	1.6106
	14.40	5.60	10.00	1.5989	-1.1359	0.2727	2.2465
C	14.40	5.60	10.00	1.6007	-1.1423	0.2736	0.0000
	14.00	6.00	10.00	1.5985	-1.1390	0.2750	0.0046
	13.60	6.40	10.00	1.6007	-1.1444	0.2744	0.0109
	13.20	6.80	10.00	1.6052	-1.1415	0.2744	0.0146
	12.80	7.20	10.00	1.6018	-1.1463	0.2791	0.0229
	12.40	7.60	10.00	1.6002	-1.1420	0.2781	0.0282
	12.00	8.00	10.00	1.6042	-1.1426	0.2814	0.0322
I	12.00	8.00	10.00	1.6058	-1.1485	0.2825	0.0000
	12.40	7.60	10.00	1.6081	-1.1447	0.2798	0.0056
	12.80	7.20	10.00	1.6081	-1.1484	0.2840	0.0120
	13.20	6.80	10.00	1.6105	-1.1447	0.2819	0.0169

FILE NAME (CONTINUED)				:	A*CI1.1C		
	13.60	6.40	10.00	1.6133	-1.1448	0.2818	0.0196
	14.00	6.00	10.00	1.6140	-1.1446	0.2824	0.0200
	14.40	5.60	10.00	1.6219	-1.1467	0.2823	0.0287
	14.80	5.20	10.00	2.1381	-1.7134	0.3323	0.9157
	15.20	4.80	10.00	2.7836	-2.4409	0.3954	2.0410
	15.60	4.40	10.00	3.5053	-3.3542	0.4761	3.3864
	16.00	4.00	10.00	4.6483	-4.8763	0.5655	5.5782
	16.40	3.60	10.00	6.4812	-7.6738	0.7514	9.4110
	16.80	3.20	10.00	16.5205	-23.600	1.1825	30.8493
1	17.20	2.80	10.00	17.3352	-24.055	0.8671	31.9863

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FILE NAME                               : A*CI2.1C
NUMBER OF POINTS                         : 53
APPARATUS USED                          : CUB TRI
TYPE OF TEST                            : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)   : 7*7*7
INITIAL CONFINMENT STRESS (PSI)         : 10.0
INITIAL RELATIVE DENSITY DR ( % )       : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0216	0.0047	0.0020	0.0173
	3.00	3.00	3.00	0.0294	0.0122	0.0175	0.0247
	3.50	3.50	3.50	0.0306	0.0120	0.0245	0.0310
	4.00	4.00	4.00	0.0395	0.0120	0.0322	0.0389
	4.50	4.50	4.50	0.0369	0.0197	0.0450	0.0516
	5.00	5.00	5.00	0.0515	0.0217	0.0485	0.0628
	5.50	5.50	5.50	0.0482	0.0267	0.0562	0.0721
	6.00	6.00	6.00	0.0568	0.0311	0.0619	0.0756
	6.50	6.50	6.50	0.0603	0.0389	0.0667	0.0791
	7.00	7.00	7.00	0.0611	0.0427	0.0717	0.0827
	7.50	7.50	7.50	0.0661	0.0480	0.0720	0.0873
	8.00	8.00	8.00	0.0690	0.0508	0.0758	0.0882
	8.50	8.50	8.50	0.0688	0.0541	0.0803	0.0922
	9.00	9.00	9.00	0.0642	0.0546	0.0836	0.0987
	9.50	9.50	9.50	0.0647	0.0595	0.0852	0.1024
A*	10.00	10.00	10.00	0.0672	0.0589	0.0856	0.1049
	10.00	10.00	10.00	0.0717	0.0605	0.0866	0.0000
	10.40	9.60	10.00	0.0724	0.0558	0.0849	0.0044
	10.80	9.20	10.00	0.0723	0.0584	0.0835	0.0077
	11.20	8.80	10.00	0.0818	0.0585	0.0856	0.0158
	11.60	8.40	10.00	0.0923	0.0553	0.0861	0.0274
	12.00	8.00	10.00	0.1224	0.0470	0.0916	0.0592
	12.40	7.60	10.00	0.1533	0.0231	0.1016	0.1042
	12.80	7.20	10.00	0.2542	-0.0531	0.1111	0.2489
	13.20	6.80	10.00	0.4218	-0.1902	0.1360	0.4979
	13.60	6.40	10.00	0.6882	-0.4065	0.1548	0.8920
	14.00	6.00	10.00	1.0124	-0.7106	0.1928	1.4057
	14.40	5.60	10.00	1.4156	-1.1072	0.2236	2.0592
C	14.40	5.60	10.00	1.4192	-1.1012	0.2219	0.0000
	14.00	6.00	10.00	1.4182	-1.1018	0.2278	0.0063
	13.60	6.40	10.00	1.4187	-1.1071	0.2315	0.0138
	13.20	6.80	10.00	1.4169	-1.1088	0.2319	0.0157
	12.80	7.20	10.00	1.4177	-1.1034	0.2348	0.0195
	12.40	7.60	10.00	1.4142	-1.1060	0.2348	0.0225
	12.00	8.00	10.00	1.4177	-1.1055	0.2364	0.0250
I	12.00	8.00	10.00	1.4215	-1.1034	0.2359	0.0000
	12.40	7.80	9.80	1.4181	-1.1040	0.2346	0.0024
	12.80	7.60	9.60	1.4158	-1.1050	0.2344	0.0042
	13.20	7.40	9.40	1.4215	-1.1033	0.2356	0.0083

FILE NAME	(CONTINUED)	:	A*CI2.1C
13.60	7.20	9.20	1.4233 -1.1089 0.2348 0.0144
14.00	7.00	9.00	1.4308 -1.1017 0.2323 0.0237
14.40	6.80	8.80	1.4405 -1.1062 0.2371 0.0355
14.80	6.60	8.60	1.4655 -1.1048 0.2269 0.0649
15.20	6.40	8.40	1.7395 -1.2319 0.1333 0.4282
15.60	6.20	8.20	2.1854 -1.4758 -0.0178 1.0396
16.00	6.00	8.00	2.6330 -1.7512 -0.1701 1.6713
16.40	5.80	7.80	3.2688 -2.1744 -0.4017 2.5927
16.80	5.60	7.60	3.9764 -2.6665 -0.6613 3.6317
17.20	5.40	7.40	4.8850 -3.3342 -1.0064 4.9915
17.60	5.20	7.20	5.9846 -4.2307 -1.4378 6.6970
18.00	5.00	7.00	7.8296 -5.8278 -2.2668 9.6476
2 18.40	4.80	6.80	18.2440 -24.191 -18.710 35.9211

FILE NAME	:	A*CI3.1C
NUMBER OF POINTS	:	52
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	10.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0445	0.0131	-0.0014	0.0384
	3.00	3.00	3.00	0.0480	0.0210	0.0149	0.0490
	3.50	3.50	3.50	0.0503	0.0229	0.0254	0.0569
	4.00	4.00	4.00	0.0619	0.0315	0.0271	0.0651
	4.50	4.50	4.50	0.0621	0.0325	0.0370	0.0739
	5.00	5.00	5.00	0.0615	0.0403	0.0400	0.0808
	5.50	5.50	5.50	0.0679	0.0412	0.0492	0.0877
	6.00	6.00	6.00	0.0679	0.0441	0.0513	0.0901
	6.50	6.50	6.50	0.0714	0.0479	0.0520	0.0928
	7.00	7.00	7.00	0.0737	0.0556	0.0623	0.0995
	7.50	7.50	7.50	0.0736	0.0611	0.0601	0.1060
	8.00	8.00	8.00	0.0758	0.0633	0.0660	0.1095
	8.50	8.50	8.50	0.0798	0.0632	0.0640	0.1145
	9.00	9.00	9.00	0.0810	0.0693	0.0709	0.1195
	9.50	9.50	9.50	0.0861	0.0752	0.0750	0.1211
	10.00	10.00	10.00	0.0856	0.0732	0.0756	0.1233
A*	10.00	10.00	10.00	0.0828	0.0737	0.0792	0.0000
	10.40	9.60	10.00	0.0902	0.0747	0.0791	0.0067
	10.80	9.20	10.00	0.0956	0.0737	0.0852	0.0131
	11.20	8.80	10.00	0.0998	0.0758	0.0832	0.0182
	11.60	8.40	10.00	0.1094	0.0732	0.0859	0.0283
	12.00	8.00	10.00	0.1368	0.0722	0.0868	0.0542
	12.40	7.60	10.00	0.1979	0.0459	0.0999	0.1257
	12.80	7.20	10.00	0.3114	-0.0348	0.1179	0.2843
	13.20	6.80	10.00	0.4985	-0.1716	0.1415	0.5487
	13.60	6.40	10.00	0.7589	-0.3920	0.1664	0.9413
	14.00	6.00	10.00	1.0764	-0.6761	0.2120	1.4333
	14.40	5.60	10.00	1.4641	-1.0654	0.2587	2.0693
C	14.40	5.60	10.00	1.4709	-1.0620	0.2625	0.0000
	14.00	6.00	10.00	1.4679	-1.0756	0.2623	0.0115
	13.60	6.40	10.00	1.4716	-1.0733	0.2646	0.0128
	13.20	6.80	10.00	1.4732	-1.0786	0.2664	0.0195
	12.80	7.20	10.00	1.4733	-1.0767	0.2684	0.0212
	12.40	7.60	10.00	1.4758	-1.0810	0.2648	0.0272
	12.00	8.00	10.00	1.4689	-1.0698	0.2697	0.0422
I	12.00	8.00	10.00	1.4694	-1.0714	0.2674	0.0000
	12.40	8.00	9.60	1.4717	-1.0750	0.2686	0.0051
	12.80	8.00	9.20	1.4746	-1.0692	0.2666	0.0116
	13.20	8.00	8.80	1.4703	-1.0705	0.2671	0.0156

FILE NAME (CONTINUED)				:	A*CI3.1C		
	13.60	8.00	8.40	1.4820	-1.0660	0.2608	0.0303
	14.00	8.00	8.00	1.4980	-1.0649	0.2463	0.0552
	14.40	8.00	7.60	1.5990	-1.0580	0.1692	0.2007
	14.80	8.00	7.20	1.7963	-1.0449	0.0067	0.4945
	15.20	8.00	6.80	2.1196	-1.0481	-0.2627	0.9793
	15.60	8.00	6.40	2.5614	-1.0433	-0.6428	1.6508
	16.00	8.00	6.00	3.0685	-1.0542	-1.1150	2.4508
	16.40	8.00	5.60	3.7543	-1.0821	-1.7618	3.5399
	16.80	8.00	5.20	4.5770	-1.1525	-2.5962	4.8942
	17.20	8.00	4.80	5.6296	-1.2669	-3.7532	6.6993
	17.60	8.00	4.40	7.3018	-1.5213	-5.7162	9.6693
3	18.00	8.00	4.00	12.6969	-2.8549	-12.751	19.8301

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FILE NAME                               : A*CI4.1C
NUMBER OF POINTS                        : 54
APPARATUS USED                          : CUB TRI
TYPE OF TEST                            : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)   : 7*7*7
INITIAL CONFINMENT STRESS (PSI)         : 10.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0193	0.0132	0.0097	0.0079
	3.00	3.00	3.00	0.0221	0.0212	0.0215	0.0152
	3.50	3.50	3.50	0.0209	0.0268	0.0307	0.0239
	4.00	4.00	4.00	0.0300	0.0273	0.0413	0.0327
	4.50	4.50	4.50	0.0312	0.0299	0.0447	0.0346
	5.00	5.00	5.00	0.0317	0.0402	0.0545	0.0436
	5.50	5.50	5.50	0.0362	0.0425	0.0591	0.0458
	6.00	6.00	6.00	0.0403	0.0465	0.0637	0.0463
	6.50	6.50	6.50	0.0451	0.0535	0.0647	0.0513
	7.00	7.00	7.00	0.0507	0.0569	0.0701	0.0533
	7.50	7.50	7.50	0.0501	0.0553	0.0723	0.0565
	8.00	8.00	8.00	0.0473	0.0585	0.0768	0.0629
	8.50	8.50	8.50	0.0508	0.0624	0.0775	0.0657
	9.00	9.00	9.00	0.0604	0.0657	0.0849	0.0709
	9.50	9.50	9.50	0.0575	0.0711	0.0878	0.0777
	10.00	10.00	10.00	0.0586	0.0706	0.0874	0.0792
A*	10.00	10.00	10.00	0.0575	0.0716	0.0925	0.0000
	10.40	9.60	10.00	0.0580	0.0689	0.0923	0.0026
	10.80	9.20	10.00	0.0617	0.0678	0.0941	0.0066
	11.20	8.80	10.00	0.0690	0.0647	0.0899	0.0170
	11.60	8.40	10.00	0.0810	0.0610	0.0904	0.0303
	12.00	8.00	10.00	0.0943	0.0563	0.0964	0.0450
	12.40	7.60	10.00	0.1422	0.0391	0.0993	0.0995
	12.80	7.20	10.00	0.2379	-0.0289	0.1081	0.2332
	13.20	6.80	10.00	0.3922	-0.1538	0.1295	0.4612
	13.60	6.40	10.00	0.6282	-0.3402	0.1505	0.8062
	14.00	6.00	10.00	0.9465	-0.6383	0.1805	1.3098
	14.40	5.60	10.00	1.3342	-1.0198	0.2112	1.9383
C	14.40	5.60	10.00	1.3389	-1.0247	0.2203	0.0000
	14.00	6.00	10.00	1.3366	-1.0268	0.2172	0.0009
	13.60	6.40	10.00	1.3380	-1.0242	0.2241	0.0056
	13.20	6.80	10.00	1.3441	-1.0257	0.2265	0.0118
	12.80	7.20	10.00	1.3407	-1.0241	0.2265	0.0159
	12.40	7.60	10.00	1.3392	-1.0240	0.2272	0.0176
	12.00	8.00	10.00	1.3409	-1.0251	0.2329	0.0235
I	12.00	8.00	10.00	1.3350	-1.0216	0.2334	0.0000
	12.20	8.20	9.60	1.3363	-1.0199	0.2322	0.0026
	12.40	8.40	9.20	1.3431	-1.0199	0.2286	0.0111
	12.60	8.60	8.80	1.3362	-1.0179	0.2272	0.0184

FILE NAME (CONTINUED)				:	A*CI4.1C	
12.80	8.80	8.40	1.3454	-1.0073	0.2276	0.0275
13.00	9.00	8.00	1.3471	-0.9899	0.2108	0.0555
13.20	9.20	7.60	1.3739	-0.9309	0.1582	0.1492
13.40	9.40	7.20	1.4266	-0.8469	0.0574	0.3107
13.60	9.60	6.80	1.5360	-0.7368	-0.1036	0.5660
13.80	9.80	6.40	1.6842	-0.6200	-0.3357	0.9107
14.00	10.00	6.00	1.8583	-0.4940	-0.6147	1.3171
14.20	10.20	5.60	2.1333	-0.3200	-1.0415	1.9367
14.40	10.40	5.20	2.4969	-0.1030	-1.6160	2.7607
14.60	10.60	4.80	2.7713	0.0588	-2.1043	3.4330
14.80	10.80	4.40	3.3283	0.3820	-3.0850	4.7861
15.00	11.00	4.00	3.8787	0.6897	-4.1471	6.2059
15.20	11.20	3.60	4.7778	1.1769	-5.9278	8.5624
4 15.40	11.40	3.20	6.2024	1.9714	-9.0110	12.5487

FILE NAME	:	A*CI5.1C
NUMBER OF POINTS	:	54
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	10.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0234	0.0062	0.0055	0.0165
	3.00	3.00	3.00	0.0349	0.0123	0.0149	0.0210
	3.50	3.50	3.50	0.0342	0.0159	0.0202	0.0260
	4.00	4.00	4.00	0.0514	0.0203	0.0278	0.0368
	4.50	4.50	4.50	0.0568	0.0290	0.0333	0.0398
	5.00	5.00	5.00	0.0595	0.0286	0.0340	0.0424
	5.50	5.50	5.50	0.0653	0.0358	0.0392	0.0440
	6.00	6.00	6.00	0.0680	0.0355	0.0449	0.0488
	6.50	6.50	6.50	0.0643	0.0415	0.0478	0.0570
	7.00	7.00	7.00	0.0730	0.0432	0.0528	0.0626
	7.50	7.50	7.50	0.0706	0.0467	0.0538	0.0673
	8.00	8.00	8.00	0.0776	0.0509	0.0601	0.0697
	8.50	8.50	8.50	0.0832	0.0520	0.0609	0.0741
	9.00	9.00	9.00	0.0804	0.0509	0.0620	0.0773
	9.50	9.50	9.50	0.0844	0.0510	0.0633	0.0806
A*	10.00	10.00	10.00	0.0845	0.0571	0.0687	0.0859
	10.00	10.00	10.00	0.0879	0.0602	0.0723	0.0000
	10.40	9.60	10.00	0.0908	0.0564	0.0689	0.0062
	10.80	9.20	10.00	0.0941	0.0614	0.0680	0.0111
	11.20	8.90	10.00	0.0990	0.0586	0.0670	0.0176
	11.60	8.40	10.00	0.1094	0.0522	0.0705	0.0315
	12.00	8.00	10.00	0.1252	0.0455	0.0680	0.0511
	12.40	7.60	10.00	0.1652	0.0128	0.0728	0.1103
	12.80	7.20	10.00	0.2530	-0.0593	0.0786	0.2409
	13.20	6.80	10.00	0.3978	-0.1904	0.0961	0.4664
	13.60	6.40	10.00	0.6444	-0.4092	0.1179	0.8465
	14.00	6.00	10.00	0.9773	-0.7275	0.1489	1.3786
	14.40	5.60	10.00	1.3666	-1.1349	0.1804	2.0303
C	14.40	5.60	10.00	1.3728	-1.1289	0.1844	0.0000
	14.00	6.00	10.00	1.3728	-1.1343	0.1871	0.0068
	13.60	6.40	10.00	1.3755	-1.1354	0.1901	0.0105
	13.20	6.80	10.00	1.3717	-1.1364	0.1885	0.0130
	12.80	7.20	10.00	1.3773	-1.1354	0.1871	0.0188
	12.40	7.60	10.00	1.3746	-1.1377	0.1885	0.0226
	12.00	8.00	10.00	1.3762	-1.1281	0.1919	0.0295
I	12.00	8.00	10.00	1.3728	-1.1319	0.1907	0.0000
	12.00	8.40	9.60	1.4004	-1.1235	0.1905	0.0233
	12.00	8.80	9.20	1.3982	-1.1270	0.1942	0.0296
	12.00	9.20	8.80	1.3958	-1.1122	0.1878	0.0479

FILE NAME		(CONTINUED)					:	A*CI5.1C
	12.00	9.60	8.40	1.3977	-1.0809	0.1728	0.0862	
	12.00	10.00	8.00	1.4008	-1.0014	0.1343	0.1839	
	12.00	10.40	7.60	1.4092	-0.8969	0.0583	0.3314	
	12.00	10.80	7.20	1.4219	-0.7637	-0.0430	0.5229	
	12.00	11.20	6.80	1.4396	-0.5734	-0.2213	0.8240	
	12.00	11.60	6.40	1.5054	-0.3621	-0.4343	1.1761	
	12.00	12.00	6.00	1.5703	-0.1534	-0.6785	1.5541	
	12.00	12.40	5.60	1.6753	0.1819	-1.0678	2.1587	
	12.00	12.80	5.20	1.7995	0.5313	-1.5176	2.8316	
	12.00	13.20	4.80	1.9781	0.9864	-2.1497	3.7543	
	12.00	13.60	4.40	2.1833	1.5767	-3.0136	4.9847	
	12.00	14.00	4.00	2.4474	2.3014	-4.1593	6.5761	
	12.00	14.40	3.60	2.8303	3.2990	-5.8355	8.8629	
5	12.00	14.80	3.20	3.5138	5.0389	-8.9988	13.0769	

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FILE NAME                               : A*CI6.1C
NUMBER OF POINTS                       : 57
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 10.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0121	0.0124	-0.0009	0.0124
	3.00	3.00	3.00	0.0115	0.0185	0.0110	0.0227
	3.50	3.50	3.50	0.0224	0.0225	0.0299	0.0348
	4.00	4.00	4.00	0.0283	0.0248	0.0353	0.0380
	4.50	4.50	4.50	0.0367	0.0315	0.0425	0.0395
	5.00	5.00	5.00	0.0432	0.0360	0.0484	0.0411
	5.50	5.50	5.50	0.0467	0.0404	0.0547	0.0434
	6.00	6.00	6.00	0.0479	0.0461	0.0616	0.0483
	6.50	6.50	6.50	0.0506	0.0469	0.0643	0.0501
	7.00	7.00	7.00	0.0535	0.0464	0.0678	0.0536
	7.50	7.50	7.50	0.0588	0.0519	0.0681	0.0584
	8.00	8.00	8.00	0.0548	0.0579	0.0735	0.0675
	8.50	8.50	8.50	0.0668	0.0580	0.0706	0.0804
	9.00	9.00	9.00	0.0634	0.0609	0.0744	0.0869
	9.50	9.50	9.50	0.0658	0.0658	0.0782	0.0889
	10.00	10.00	10.00	0.0669	0.0657	0.0823	0.0925
A*	10.00	10.00	10.00	0.0657	0.0663	0.0808	0.0000
	10.40	9.60	10.00	0.0732	0.0652	0.0826	0.0071
	10.80	9.20	10.00	0.0766	0.0641	0.0810	0.0116
	11.20	8.80	10.00	0.0806	0.0631	0.0850	0.0163
	11.60	8.40	10.00	0.0916	0.0607	0.0795	0.0306
	12.00	8.00	10.00	0.1093	0.0524	0.0824	0.0520
	12.40	7.60	10.00	0.1693	0.0201	0.0865	0.1278
	12.80	7.20	10.00	0.2845	-0.0605	0.0976	0.2878
	13.20	6.80	10.00	0.4642	-0.1984	0.1168	0.5471
	13.60	6.40	10.00	0.7203	-0.4118	0.1406	0.9305
	14.00	6.00	10.00	1.0379	-0.7154	0.1806	1.4386
	14.40	5.60	10.00	1.4670	-1.1435	0.2177	2.1394
C	14.40	5.60	10.00	1.4745	-1.1459	0.2166	0.0000
	14.00	6.00	10.00	1.4704	-1.1483	0.2255	0.0115
	13.60	6.40	10.00	1.4768	-1.1504	0.2268	0.0185
	13.20	6.80	10.00	1.4763	-1.1479	0.2251	0.0221
	12.80	7.20	10.00	1.4769	-1.1505	0.2287	0.0272
	12.40	7.60	10.00	1.4760	-1.1430	0.2241	0.0373
	12.00	8.00	10.00	1.4752	-1.1419	0.2294	0.0425
I	12.00	8.00	10.00	1.4775	-1.1425	0.2264	0.0000
	11.75	8.50	9.75	1.4766	-1.1406	0.2293	0.0032
	11.50	9.00	9.50	1.4752	-1.1243	0.2283	0.0197
	11.25	9.50	9.25	1.4703	-1.0934	0.2249	0.0528

FILE NAME (CONTINUED) : A*CI6.1C

11.00	10.00	9.00	1.4720	-1.0237	0.2168	0.1220
10.75	10.50	8.75	1.4622	-0.9334	0.2006	0.2195
10.50	11.00	8.50	1.4352	-0.8066	0.1604	0.3712
10.25	11.50	8.25	1.4060	-0.6687	0.1111	0.5389
10.00	12.00	8.00	1.3501	-0.4701	0.0237	0.7950
9.75	12.50	7.75	1.3148	-0.2859	-0.0535	1.0243
9.50	13.00	7.50	1.2503	-0.0252	-0.1812	1.3646
9.25	13.50	7.25	1.1807	0.2575	-0.3272	1.7380
9.00	14.00	7.00	1.1110	0.5605	-0.4925	2.1421
8.75	14.50	6.75	1.0065	0.9887	-0.7304	2.7176
8.50	15.00	6.50	0.8699	1.4779	-1.0335	3.3999
8.25	15.50	6.25	0.7216	2.0122	-1.3748	4.1511
8.00	16.00	6.00	0.5199	2.6897	-1.8206	5.1159
7.75	16.50	5.75	0.2385	3.5526	-2.4227	6.3735
7.50	17.00	5.50	-0.1056	4.5467	-3.1509	7.8499
7.25	17.50	5.25	-0.6299	5.8803	-4.2020	9.8956
6	7.00	18.00	5.00	-1.5045	7.9337	-5.9649 13.1566

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FILE NAME                               : A*CI7.1C
NUMBER OF POINTS                         : 59
APPARATUS USED                           : CUB TRI
TYPE OF TEST                             : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)    : 7*7*7
INITIAL CONFINMENT STRESS (PSI)          : 10.0
INITIAL RELATIVE DENSITY DR ( % )       : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0107	0.0134	0.0104	0.0027
	3.00	3.00	3.00	0.0169	0.0162	0.0196	0.0080
	3.50	3.50	3.50	0.0284	0.0222	0.0226	0.0151
	4.00	4.00	4.00	0.0284	0.0292	0.0316	0.0229
	4.50	4.50	4.50	0.0329	0.0372	0.0364	0.0261
	5.00	5.00	5.00	0.0384	0.0422	0.0378	0.0297
	5.50	5.50	5.50	0.0462	0.0391	0.0396	0.0386
	6.00	6.00	6.00	0.0504	0.0434	0.0526	0.0469
	6.50	6.50	6.50	0.0521	0.0490	0.0542	0.0506
	7.00	7.00	7.00	0.0561	0.0551	0.0578	0.0528
	7.50	7.50	7.50	0.0567	0.0595	0.0600	0.0559
	8.00	8.00	8.00	0.0632	0.0617	0.0634	0.0595
	8.50	8.50	8.50	0.0620	0.0640	0.0658	0.0629
	9.00	9.00	9.00	0.0682	0.0674	0.0710	0.0652
	9.50	9.50	9.50	0.0654	0.0673	0.0696	0.0674
	10.00	10.00	10.00	0.0697	0.0695	0.0710	0.0699
A*	10.00	10.00	10.00	0.0668	0.0705	0.0766	0.0000
	10.40	9.60	10.00	0.0720	0.0662	0.0737	0.0083
	10.80	9.20	10.00	0.0760	0.0684	0.0747	0.0108
	11.20	8.80	10.00	0.0860	0.0695	0.0743	0.0200
	11.60	8.40	10.00	0.0939	0.0658	0.0792	0.0298
	12.00	8.00	10.00	0.1210	0.0605	0.0840	0.0569
	12.40	7.60	10.00	0.1638	0.0250	0.0973	0.1214
	12.80	7.20	10.00	0.2920	-0.0689	0.1208	0.3028
	13.20	6.80	10.00	0.4632	-0.2150	0.1490	0.5624
	13.60	6.40	10.00	0.7189	-0.4202	0.1737	0.9386
	14.00	6.00	10.00	1.0427	-0.7195	0.2279	1.4490
	14.40	5.60	10.00	1.4152	-1.0830	0.2716	2.0510
C	14.40	5.60	10.00	1.4238	-1.0834	0.2737	0.0000
	14.00	6.00	10.00	1.4249	-1.0922	0.2734	0.0088
	13.60	6.40	10.00	1.4248	-1.0948	0.2744	0.0117
	13.20	6.80	10.00	1.4242	-1.0904	0.2754	0.0159
	12.80	7.20	10.00	1.4220	-1.0975	0.2783	0.0241
	12.40	7.60	10.00	1.4265	-1.0931	0.2754	0.0310
	12.00	8.00	10.00	1.4249	-1.0973	0.2802	0.0385
I	12.00	8.00	10.00	1.4215	-1.0949	0.2739	0.0000
	11.60	8.40	10.00	1.4214	-1.0901	0.2824	0.0070
	11.20	8.80	10.00	1.4243	-1.0859	0.2826	0.0102
	10.80	9.20	10.00	1.4179	-1.0750	0.2805	0.0249

FILE NAME (CONTINUED)				:	A*CI7.1C	
10.40	9.60	10.00	1.4036	-1.0497	0.2847	0.0573
10.00	10.00	10.00	1.3945	-1.0043	0.2866	0.1044
9.60	10.40	10.00	1.3727	-0.9305	0.2870	0.1860
9.20	10.80	10.00	1.3225	-0.8340	0.2896	0.3073
8.80	11.20	10.00	1.2475	-0.7195	0.2916	0.4630
8.40	11.60	10.00	1.1575	-0.5836	0.3021	0.6478
8.00	12.00	10.00	1.0467	-0.4425	0.3137	0.8536
7.60	12.40	10.00	0.9071	-0.2360	0.3203	1.1373
7.20	12.80	10.00	0.7214	-0.0195	0.3412	1.4657
6.80	13.20	10.00	0.5259	0.2129	0.3616	1.8151
6.40	13.60	10.00	0.2746	0.4904	0.3912	2.2471
6.00	14.00	10.00	-0.0269	0.8205	0.4079	2.7628
5.60	14.40	10.00	-0.4426	1.2334	0.4531	3.4408
5.20	14.80	10.00	-0.8918	1.6511	0.4871	4.1502
4.80	15.20	10.00	-1.6178	2.2833	0.5540	5.2643
4.40	15.60	10.00	-2.7795	3.2177	0.6374	6.9858
4.00	16.00	10.00	-3.7648	3.9297	0.7137	8.3862
3.60	16.40	10.00	-5.6957	5.2390	0.8255	11.0616
7 3.20	16.80	10.00	-18.723	13.5550	1.2453	28.6845

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FILE NAME                               :      A*CI8.1C
NUMBER OF POINTS                       :              57
APPARATUS USED                         :      CUB TRI
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      10.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0066	0.0081	0.0090	0.0020
	3.00	3.00	3.00	0.0235	0.0126	0.0186	0.0122
	3.50	3.50	3.50	0.0183	0.0203	0.0248	0.0238
	4.00	4.00	4.00	0.0232	0.0242	0.0310	0.0257
	4.50	4.50	4.50	0.0256	0.0292	0.0357	0.0281
	5.00	5.00	5.00	0.0272	0.0346	0.0414	0.0318
	5.50	5.50	5.50	0.0312	0.0392	0.0423	0.0350
	6.00	6.00	6.00	0.0348	0.0433	0.0428	0.0382
	6.50	6.50	6.50	0.0365	0.0424	0.0516	0.0463
	7.00	7.00	7.00	0.0392	0.0501	0.0495	0.0542
	7.50	7.50	7.50	0.0460	0.0535	0.0574	0.0580
	8.00	8.00	8.00	0.0453	0.0552	0.0590	0.0602
	8.50	8.50	8.50	0.0425	0.0547	0.0654	0.0680
	9.00	9.00	9.00	0.0441	0.0597	0.0673	0.0710
	9.50	9.50	9.50	0.0535	0.0605	0.0720	0.0781
A*	10.00	10.00	10.00	0.0563	0.0638	0.0717	0.0813
	10.00	10.00	10.00	0.0510	0.0659	0.0718	0.0000
	10.40	9.60	10.00	0.0514	0.0627	0.0718	0.0033
	10.80	9.20	10.00	0.0569	0.0643	0.0715	0.0081
	11.20	8.80	10.00	0.0561	0.0601	0.0751	0.0144
	11.60	8.40	10.00	0.0655	0.0585	0.0756	0.0240
	12.00	8.00	10.00	0.0848	0.0570	0.0765	0.0425
	12.40	7.60	10.00	0.1282	0.0381	0.0795	0.0941
	12.80	7.20	10.00	0.2186	-0.0187	0.0852	0.2148
	13.20	6.80	10.00	0.3805	-0.1444	0.1031	0.4497
	13.60	6.40	10.00	0.6513	-0.3668	0.1205	0.8523
	14.00	6.00	10.00	1.0283	-0.7154	0.1610	1.4453
	14.40	5.60	10.00	1.3731	-1.0518	0.1903	2.0020
C	14.40	5.60	10.00	1.3821	-1.0581	0.1908	0.0000
	14.00	6.00	10.00	1.3811	-1.0586	0.1941	0.0038
	13.60	6.40	10.00	1.3798	-1.0576	0.1974	0.0076
	13.20	6.80	10.00	1.3804	-1.0602	0.1966	0.0102
	12.80	7.20	10.00	1.3804	-1.0619	0.1962	0.0117
	12.40	7.60	10.00	1.3786	-1.0620	0.1974	0.0140
	12.00	8.00	10.00	1.3799	-1.0550	0.1963	0.0208
I	12.00	8.00	10.00	1.3747	-1.0625	0.2034	0.0000
	11.50	8.25	10.25	1.3622	-1.0551	0.2058	0.0048
	11.00	8.50	10.50	1.3776	-1.0483	0.2080	0.0142
	10.50	8.75	10.75	1.3798	-1.0349	0.2125	0.0240

FILE NAME (CONTINUED)				:	A*CI8.1C	
10.00	9.00	11.00	1.3729	-1.0137	0.2269	0.0478
9.50	9.25	11.25	1.3710	-0.9768	0.2405	0.0797
9.00	9.50	11.50	1.3218	-0.9203	0.2629	0.1678
8.50	9.75	11.75	1.2526	-0.8559	0.3058	0.2850
8.00	10.00	12.00	1.1583	-0.7697	0.3672	0.4447
7.50	10.25	12.25	1.0196	-0.6682	0.4504	0.6631
7.00	10.50	12.50	0.8352	-0.5400	0.5560	0.9478
6.50	10.75	12.75	0.6202	-0.4072	0.6853	1.2740
6.00	11.00	13.00	0.2949	-0.2281	0.8712	1.7528
5.50	11.25	13.25	-0.1105	-0.0323	1.0935	2.3326
5.00	11.50	13.50	-0.6273	0.1969	1.3798	3.0643
4.50	11.75	13.75	-1.3563	0.4963	1.7679	4.0783
4.00	12.00	14.00	-2.3973	0.8911	2.3010	5.5016
3.50	12.25	14.25	-4.0517	1.4602	3.1010	7.7149
3.00	12.50	14.50	-7.7687	2.6658	4.7628	12.5852
2.50	12.75	14.75	-22.076	7.6316	12.5091	32.1990
8	2.00	13.00	15.00	-22.148	8.3228	13.6966
						33.2346

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FILE NAME                               : A*CI9.1C
NUMBER OF POINTS                       : 57
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 10.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0168	0.0215	0.0119	0.0078
	3.00	3.00	3.00	0.0231	0.0302	0.0170	0.0109
	3.50	3.50	3.50	0.0270	0.0285	0.0312	0.0241
	4.00	4.00	4.00	0.0394	0.0358	0.0402	0.0283
	4.50	4.50	4.50	0.0419	0.0419	0.0419	0.0321
	5.00	5.00	5.00	0.0491	0.0447	0.0494	0.0364
	5.50	5.50	5.50	0.0560	0.0455	0.0603	0.0447
	6.00	6.00	6.00	0.0626	0.0536	0.0634	0.0490
	6.50	6.50	6.50	0.0683	0.0571	0.0644	0.0528
	7.00	7.00	7.00	0.0661	0.0540	0.0694	0.0600
	7.50	7.50	7.50	0.0708	0.0559	0.0729	0.0623
	8.00	8.00	8.00	0.0741	0.0613	0.0800	0.0654
	8.50	8.50	8.50	0.0775	0.0602	0.0807	0.0691
	9.00	9.00	9.00	0.0805	0.0631	0.0885	0.0737
	9.50	9.50	9.50	0.0817	0.0663	0.0867	0.0778
	10.00	10.00	10.00	0.0835	0.0690	0.0898	0.0789
A*	10.00	10.00	10.00	0.0801	0.0697	0.0888	0.0000
	10.40	9.60	10.00	0.0874	0.0687	0.0901	0.0070
	10.80	9.20	10.00	0.0905	0.0671	0.0921	0.0111
	11.20	8.80	10.00	0.0962	0.0683	0.0918	0.0161
	11.60	8.40	10.00	0.1014	0.0650	0.0955	0.0235
	12.00	8.00	10.00	0.1192	0.0567	0.0952	0.0453
	12.40	7.60	10.00	0.1487	0.0390	0.0950	0.0843
	12.80	7.20	10.00	0.2327	-0.0204	0.1046	0.2014
	13.20	6.80	10.00	0.4045	-0.1603	0.1175	0.4559
	13.60	6.40	10.00	0.6709	-0.3776	0.1372	0.8509
	14.00	6.00	10.00	1.0547	-0.7402	0.1735	1.4608
	14.40	5.60	10.00	1.3814	-1.0702	0.1985	1.9976
C	14.40	5.60	10.00	1.3911	-1.0753	0.2052	0.0000
	14.00	6.00	10.00	1.3913	-1.0718	0.2060	0.0028
	13.60	6.40	10.00	1.3911	-1.0699	0.2068	0.0046
	13.20	6.80	10.00	1.3910	-1.0737	0.2111	0.0112
	12.80	7.20	10.00	1.3854	-1.0738	0.2096	0.0158
	12.40	7.60	10.00	1.3895	-1.0663	0.2124	0.0199
	12.00	8.00	10.00	1.3865	-1.0669	0.2155	0.0249
I	12.00	8.00	10.00	1.3848	-1.0669	0.2124	0.0000
	11.60	8.00	10.40	1.3904	-1.0659	0.2203	0.0058
	11.20	8.00	10.80	1.3872	-1.0644	0.2254	0.0127
	10.80	8.00	11.20	1.3918	-1.0680	0.2282	0.0198

FILE NAME (CONTINUED) : A*CI9.1C

10.40	8.00	11.60	1.3867	-1.0628	0.2381	0.0323
10.00	8.00	12.00	1.3843	-1.0570	0.2532	0.0466
9.60	8.00	12.40	1.3764	-1.0506	0.2836	0.0782
9.20	8.00	12.80	1.3592	-1.0417	0.3374	0.1369
8.80	8.00	13.20	1.3142	-1.0272	0.4118	0.2343
8.40	8.00	13.60	1.2216	-1.0143	0.5278	0.4046
8.00	8.00	14.00	1.1154	-0.9995	0.6666	0.6047
7.60	8.00	14.40	0.9623	-0.9863	0.8679	0.8942
7.20	8.00	14.80	0.7863	-0.9760	1.0813	1.2123
6.80	8.00	15.20	0.5448	-0.9824	1.3806	1.6551
6.40	8.00	15.60	0.2193	-0.9939	1.7507	2.2239
6.00	8.00	16.00	-0.1587	-1.0254	2.1849	2.8895
5.60	8.00	16.40	-0.6753	-1.0599	2.7311	3.7584
5.20	8.00	16.80	-1.3104	-1.1357	3.3878	4.8164
4.80	8.00	17.20	-2.2154	-1.2136	4.2267	6.2409
4.40	8.00	17.60	-3.4856	-1.3738	5.3481	8.1953
9 4.00	8.00	18.00	-6.1727	-1.7106	7.4863	12.1355

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FILE NAME                               :      A*CI10.1C
NUMBER OF POINTS                       :              57
APPARATUS USED                         :      CUB TRI
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINENT STRESS (PSI)         :      10.0
INITIAL RELATIVE DENSITY DR ( % )     :      72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0132	0.0058	0.0176	0.0097
	3.00	3.00	3.00	0.0190	0.0220	0.0266	0.0184
	3.50	3.50	3.50	0.0270	0.0291	0.0381	0.0222
	4.00	4.00	4.00	0.0351	0.0404	0.0441	0.0265
	4.50	4.50	4.50	0.0402	0.0437	0.0486	0.0280
	5.00	5.00	5.00	0.0490	0.0509	0.0523	0.0323
	5.50	5.50	5.50	0.0462	0.0575	0.0555	0.0401
	6.00	6.00	6.00	0.0496	0.0598	0.0607	0.0423
	6.50	6.50	6.50	0.0582	0.0604	0.0631	0.0492
	7.00	7.00	7.00	0.0588	0.0610	0.0699	0.0550
	7.50	7.50	7.50	0.0577	0.0633	0.0739	0.0593
	8.00	8.00	8.00	0.0594	0.0720	0.0716	0.0695
	8.50	8.50	8.50	0.0677	0.0715	0.0755	0.0758
	9.00	9.00	9.00	0.0641	0.0767	0.0776	0.0829
	9.50	9.50	9.50	0.0677	0.0795	0.0806	0.0836
	10.00	10.00	10.00	0.0729	0.0775	0.0828	0.0896
A*	10.00	10.00	10.00	0.0761	0.0833	0.0848	0.0000
	10.40	9.60	10.00	0.0768	0.0829	0.0873	0.0024
	10.80	9.20	10.00	0.0768	0.0748	0.0860	0.0095
	11.20	8.80	10.00	0.0825	0.0812	0.0861	0.0152
	11.60	8.40	10.00	0.0966	0.0714	0.0910	0.0349
	12.00	8.00	10.00	0.1100	0.0557	0.0828	0.0596
	12.40	7.60	10.00	0.1471	0.0363	0.0973	0.1060
	12.80	7.20	10.00	0.2725	-0.0202	0.1115	0.2557
	13.20	6.80	10.00	0.4454	-0.1543	0.1317	0.5064
	13.60	6.40	10.00	0.7121	-0.3738	0.1550	0.9034
	14.00	6.00	10.00	1.0517	-0.6935	0.1891	1.4421
	14.40	5.60	10.00	1.4456	-1.0840	0.2230	2.0834
C	14.40	5.60	10.00	1.4486	-1.0850	0.2248	0.0000
	14.00	6.00	10.00	1.4513	-1.0876	0.2296	0.0062
	13.60	6.40	10.00	1.4519	-1.0849	0.2317	0.0079
	13.20	6.80	10.00	1.4490	-1.0850	0.2287	0.0106
	12.80	7.20	10.00	1.4559	-1.0875	0.2394	0.0218
	12.40	7.60	10.00	1.4539	-1.0924	0.2360	0.0241
	12.00	8.00	10.00	1.4535	-1.0877	0.2387	0.0284
I	12.00	8.00	10.00	1.4614	-1.0870	0.2393	0.0000
	11.80	7.80	10.40	1.4593	-1.0870	0.2398	0.0022
	11.60	7.60	10.80	1.4548	-1.0891	0.2471	0.0125
	11.40	7.40	11.20	1.4598	-1.0899	0.2528	0.0183

FILE NAME (CONTINUED) : A*CI10.

11.20	7.20	11.60	1.4592	-1.0893	0.2570	0.0224
11.00	7.00	12.00	1.4626	-1.0877	0.2673	0.0299
10.80	6.80	12.40	1.4617	-1.0908	0.2813	0.0450
10.60	6.60	12.80	1.4619	-1.0946	0.3115	0.0754
10.40	6.40	13.20	1.4529	-1.1077	0.3676	0.1384
10.20	6.20	13.60	1.4456	-1.1475	0.4691	0.2595
10.00	6.00	14.00	1.4145	-1.2619	0.6664	0.5231
9.80	5.80	14.40	1.3807	-1.4133	0.8798	0.8271
9.60	5.60	14.80	1.3316	-1.6532	1.1825	1.2766
9.40	5.40	15.20	1.2801	-1.9281	1.5295	1.7911
9.20	5.20	15.60	1.2202	-2.2810	1.9374	2.4177
9.00	5.00	16.00	1.1381	-2.7284	2.4256	3.1877
8.80	4.80	16.40	1.0300	-3.3057	3.0234	4.1536
8.60	4.60	16.80	0.8933	-3.9697	3.6847	5.2432
8.40	4.40	17.20	0.7180	-4.8991	4.5336	6.7007
8.20	4.20	17.60	0.3623	-6.3974	5.6547	9.0165
10 8.00	4.00	18.00	-0.6028	-10.632	9.2408	15.2595

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FILE NAME                               : A*CI11.1C
NUMBER OF POINTS                       : 5C
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 10.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0117	0.0114	0.0083	0.0030
	3.00	3.00	3.00	0.0100	0.0104	0.0155	0.0111
	3.50	3.50	3.50	0.0092	0.0153	0.0210	0.0168
	4.00	4.00	4.00	0.0157	0.0219	0.0266	0.0176
	4.50	4.50	4.50	0.0166	0.0283	0.0287	0.0224
	5.00	5.00	5.00	0.0207	0.0262	0.0327	0.0282
	5.50	5.50	5.50	0.0269	0.0305	0.0361	0.0305
	6.00	6.00	6.00	0.0262	0.0369	0.0384	0.0364
	6.50	6.50	6.50	0.0262	0.0398	0.0403	0.0387
	7.00	7.00	7.00	0.0246	0.0452	0.0445	0.0449
	7.50	7.50	7.50	0.0362	0.0457	0.0452	0.0553
	8.00	8.00	8.00	0.0319	0.0456	0.0456	0.0595
	8.50	8.50	8.50	0.0326	0.0495	0.0511	0.0635
	9.00	9.00	9.00	0.0366	0.0512	0.0524	0.0658
	9.50	9.50	9.50	0.0439	0.0582	0.0594	0.0661
	10.00	10.00	10.00	0.0426	0.0609	0.0611	0.0695
A*	10.00	10.00	10.00	0.0411	0.0591	0.0563	0.0000
	10.40	9.60	10.00	0.0419	0.0626	0.0599	0.0025
	10.80	9.20	10.00	0.0449	0.0583	0.0588	0.0085
	11.20	8.80	10.00	0.0566	0.0609	0.0607	0.0173
	11.60	8.40	10.00	0.0631	0.0595	0.0617	0.0237
	12.00	8.00	10.00	0.0735	0.0582	0.0643	0.0337
	12.40	7.60	10.00	0.1061	0.0541	0.0658	0.0660
	12.80	7.20	10.00	0.1576	0.0241	0.0657	0.1334
	13.20	6.80	10.00	0.3084	-0.1053	0.0801	0.3621
	13.60	6.40	10.00	0.5535	-0.3232	0.0977	0.7402
	14.00	6.00	10.00	0.8683	-0.6212	0.1235	1.2409
	14.40	5.60	10.00	1.2625	-1.0284	0.1548	1.8961
C	14.40	5.60	10.00	1.2645	-1.0267	0.1560	0.0000
	14.00	6.00	10.00	1.2690	-1.0273	0.1621	0.0056
	13.60	6.40	10.00	1.2661	-1.0284	0.1636	0.0092
	13.20	6.80	10.00	1.2665	-1.0256	0.1616	0.0130
	12.80	7.20	10.00	1.2696	-1.0272	0.1650	0.0176
	12.40	7.60	10.00	1.2706	-1.0275	0.1650	0.0186
	12.00	8.00	10.00	1.2656	-1.0268	0.1646	0.0235
I	12.00	8.00	10.00	1.2677	-1.0262	0.1654	0.0000
	12.00	7.60	10.40	1.2621	-1.0257	0.1693	0.0079
	12.00	7.20	10.80	1.2648	-1.0256	0.1733	0.0111
	12.00	6.80	11.20	1.2700	-1.0301	0.1783	0.0201

FILE NAME		(CONTINUED)		: A*CI11.1C			
	12.00	6.40	11.60	1.2672	-1.0235	0.1785	0.0279
	12.00	6.00	12.00	1.2712	-1.0321	0.1871	0.0425
	12.00	5.60	12.40	1.2686	-1.0645	0.2128	0.0899
	12.00	5.20	12.80	1.3051	-1.3139	0.4018	0.4534
	12.00	4.80	13.20	1.4250	-1.7442	0.6878	1.0656
	12.00	4.40	13.60	1.5870	-2.4045	1.1134	1.9905
	12.00	4.00	14.00	1.8616	-3.3755	1.6522	3.3072
	12.00	3.60	14.40	2.2801	-5.0938	2.5757	5.5972
	12.00	3.20	14.80	2.8472	-7.4017	3.6602	8.5818
11	12.00	2.80	15.20	6.0558	-22.647	11.1311	28.2989

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FILE NAME                               : A*CI12.1C
NUMBER OF POINTS                       : 50
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 10.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0222	0.0022	0.0127	0.0163
	3.00	3.00	3.00	0.0235	0.0086	0.0208	0.0222
	3.50	3.50	3.50	0.0276	0.0148	0.0276	0.0244
	4.00	4.00	4.00	0.0388	0.0207	0.0376	0.0290
	4.50	4.50	4.50	0.0357	0.0237	0.0389	0.0341
	5.00	5.00	5.00	0.0440	0.0313	0.0429	0.0378
	5.50	5.50	5.50	0.0479	0.0265	0.0493	0.0473
	6.00	6.00	6.00	0.0474	0.0305	0.0526	0.0513
	6.50	6.50	6.50	0.0503	0.0333	0.0585	0.0543
	7.00	7.00	7.00	0.0560	0.0370	0.0562	0.0611
	7.50	7.50	7.50	0.0560	0.0277	0.0614	0.0656
	8.00	8.00	8.00	0.0556	0.0432	0.0616	0.0710
	8.50	8.50	8.50	0.0602	0.0481	0.0697	0.0741
	9.00	9.00	9.00	0.0567	0.0466	0.0658	0.0762
	9.50	9.50	9.50	0.0631	0.0526	0.0700	0.0781
	10.00	10.00	10.00	0.0648	0.0537	0.0668	0.0825
A*	10.00	10.00	10.00	0.0662	0.0542	0.0708	0.0000
	10.40	9.60	10.00	0.0723	0.0581	0.0704	0.0054
	10.80	9.20	10.00	0.0690	0.0565	0.0700	0.0077
	11.20	9.80	10.00	0.0743	0.0514	0.0681	0.0164
	11.60	8.40	10.00	0.0898	0.0532	0.0744	0.0278
	12.00	8.00	10.00	0.1056	0.0468	0.0710	0.0475
	12.40	7.60	10.00	0.1373	0.0282	0.0732	0.0888
	12.80	7.20	10.00	0.2281	-0.0225	0.0833	0.2047
	13.20	6.30	10.00	0.4162	-0.1693	0.1054	0.4782
	13.60	6.40	10.00	0.6626	-0.3838	0.1337	0.8546
	14.00	6.00	10.00	1.0323	-0.7327	0.1785	1.4431
	14.40	5.60	10.00	1.4495	-1.1468	0.2264	2.1224
C	14.40	5.50	10.00	1.4545	-1.1457	0.2260	0.0000
	14.00	6.00	10.00	1.4556	-1.1458	0.2291	0.0027
	13.60	6.40	10.00	1.4558	-1.1500	0.2295	0.0069
	13.20	6.80	10.00	1.4597	-1.1494	0.2279	0.0115
	12.80	7.20	10.00	1.4592	-1.1504	0.2290	0.0138
	12.40	7.60	10.00	1.4571	-1.1548	0.2306	0.0187
	12.00	8.00	10.00	1.4565	-1.1515	0.2344	0.0226
I	12.00	8.00	10.00	1.4582	-1.1482	0.2325	0.0000
	12.20	7.60	10.20	1.4564	-1.1532	0.2333	0.0047
	12.40	7.20	10.40	1.4569	-1.1494	0.2366	0.0076
	12.60	6.80	10.60	1.4570	-1.1495	0.2421	0.0128

FILE NAME		(CONTINUED)				:	A*CI12.1C
	12.80	6.40	10.80	1.4554	-1.1477	0.2418	0.0155
	13.00	6.00	11.00	1.4547	-1.1520	0.2403	0.0186
	13.20	5.50	11.20	1.4606	-1.1478	0.2479	0.0213
	13.40	5.20	11.40	1.5227	-1.3024	0.3226	0.2318
	13.60	4.80	11.60	1.7862	-1.7729	0.5275	0.8980
	13.80	4.40	11.80	2.2551	-2.6423	0.8592	2.1003
	14.00	4.00	12.00	2.6410	-3.3965	1.1244	3.1230
	14.20	3.60	12.20	3.3757	-4.9674	1.6447	5.2030
	14.40	3.20	12.40	4.5044	-7.4848	2.4237	8.4882
12	14.60	2.80	12.60	10.3546	-20.189	7.3769	25.5750

FILE NAME	:	A*CD.1C
NUMBER OF POINTS	:	48
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	10.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0215	0.0149	0.0010	0.0171
	3.00	3.00	3.00	0.0250	0.0277	0.0079	0.0248
	3.50	3.50	3.50	0.0336	0.0366	0.0150	0.0264
	4.00	4.00	4.00	0.0356	0.0457	0.0226	0.0326
	4.50	4.50	4.50	0.0475	0.0498	0.0274	0.0397
	5.00	5.00	5.00	0.0450	0.0601	0.0378	0.0519
	5.50	5.50	5.50	0.0570	0.0638	0.0400	0.0605
	6.00	6.00	6.00	0.0603	0.0649	0.0456	0.0642
	6.50	6.50	6.50	0.0634	0.0688	0.0504	0.0656
	7.00	7.00	7.00	0.0686	0.0754	0.0555	0.0670
	7.50	7.50	7.50	0.0732	0.0771	0.0609	0.0703
	8.00	8.00	8.00	0.0732	0.0794	0.0608	0.0725
	8.50	8.50	8.50	0.0789	0.0898	0.0658	0.0773
	9.00	9.00	9.00	0.0792	0.0859	0.0709	0.0847
	9.50	9.50	9.50	0.0832	0.0928	0.0755	0.0872
	10.00	10.00	10.00	0.0855	0.0936	0.0766	0.0886
P.*	10.00	10.00	10.00	0.0855	0.0925	0.0792	0.0000
	10.40	9.60	10.00	0.0917	0.0952	0.0819	0.0033
	10.80	9.20	10.00	0.0885	0.0941	0.0768	0.0066
	11.20	8.80	10.00	0.0987	0.0913	0.0816	0.0173
	11.60	8.40	10.00	0.1108	0.0893	0.0810	0.0300
	12.00	8.00	10.00	0.1384	0.0793	0.0836	0.0612
	12.40	7.60	10.00	0.2176	0.0470	0.0942	0.1531
	12.80	7.20	10.00	0.3563	-0.0272	0.1020	0.3284
	13.20	6.80	10.00	0.5633	-0.1979	0.1337	0.6370
	13.60	6.40	10.00	0.8526	-0.4275	0.1621	1.0608
	14.00	6.00	10.00	1.1668	-0.7280	0.2033	1.5637
	14.40	5.60	10.00	1.6051	-1.1464	0.2566	2.2644
C	14.40	5.60	10.00	1.6097	-1.1435	0.2550	0.0000
	14.40	6.00	9.60	1.6209	-1.1512	0.2532	0.0162
	14.40	6.40	9.20	1.6159	-1.1543	0.2544	0.0214
	14.40	6.80	8.80	1.6250	-1.1517	0.2544	0.0290
	14.40	7.20	8.40	1.6412	-1.1509	0.2526	0.0449
	14.40	7.60	8.00	1.6674	-1.1495	0.2340	0.0816
	14.40	8.00	7.60	1.8026	-1.1402	0.1368	0.2715
	14.40	8.40	7.20	1.9117	-1.1073	0.0137	0.4619
	14.40	8.80	6.80	2.0502	-1.0586	-0.1391	0.7084
	14.40	9.20	6.40	2.2294	-0.9393	-0.3660	1.0564

FILE NAME		(CONTINUED)		:	A*CD.1C		
	14.40	9.60	6.00	2.4521	-0.8151	-0.6616	1.5159
	14.40	10.00	5.60	2.6868	-0.6358	-1.0407	2.0703
	14.40	10.40	5.20	3.0156	-0.4074	-1.5598	2.8269
	14.40	10.80	4.80	3.3448	-0.1024	-2.1836	3.7141
	14.40	11.20	4.40	3.7802	0.2641	-3.0509	4.9112
	14.40	11.60	4.00	4.3509	0.8249	-4.3613	6.6800
	14.40	12.00	3.60	4.9734	1.3616	-5.8200	8.6031
D	14.40	12.40	3.20	6.0126	2.4124	-8.5245	12.1382

FILE NAME	:	A*CE.1C
NUMBER OF POINTS	:	50
APPARATUS USED	:	CUE TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	10.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0114	0.0055	0.0178	0.0101
	3.00	3.00	3.00	0.0247	0.0178	0.0286	0.0121
	3.50	3.50	3.50	0.0276	0.0243	0.0317	0.0153
	4.00	4.00	4.00	0.0399	0.0342	0.0382	0.0201
	4.50	4.50	4.50	0.0469	0.0374	0.0405	0.0241
	5.00	5.00	5.00	0.0461	0.0429	0.0514	0.0337
	5.50	5.50	5.50	0.0561	0.0449	0.0529	0.0414
	6.00	6.00	6.00	0.0563	0.0530	0.0602	0.0485
	6.50	6.50	6.50	0.0669	0.0601	0.0608	0.0569
	7.00	7.00	7.00	0.0657	0.0635	0.0669	0.0629
	7.50	7.50	7.50	0.0663	0.0630	0.0659	0.0642
	8.00	8.00	8.00	0.0687	0.0701	0.0691	0.0684
	8.50	8.50	8.50	0.0713	0.0707	0.0757	0.0733
	9.00	9.00	9.00	0.0752	0.0712	0.0754	0.0769
	9.50	9.50	9.50	0.0835	0.0734	0.0792	0.0821
	10.00	10.00	10.00	0.0800	0.0810	0.0784	0.0910
A*	10.00	10.00	10.00	0.0764	0.0757	0.0789	0.0000
	10.40	9.60	10.00	0.0863	0.0783	0.0820	0.0066
	10.80	9.20	10.00	0.0892	0.0734	0.0817	0.0131
	11.20	8.80	10.00	0.0892	0.0747	0.0808	0.0149
	11.60	8.40	10.00	0.1050	0.0736	0.0797	0.0309
	12.00	8.00	10.00	0.1219	0.0707	0.0794	0.0485
	12.40	7.60	10.00	0.1660	0.0440	0.0854	0.1068
	12.80	7.20	10.00	0.2796	-0.0180	0.0889	0.2512
	13.20	6.80	10.00	0.4661	-0.1718	0.1084	0.5291
	13.60	6.40	10.00	0.7081	-0.3692	0.1258	0.8910
	14.00	6.00	10.00	1.0196	-0.6616	0.1685	1.3820
	14.40	5.60	10.00	1.4572	-1.0797	0.2106	2.0813
C	14.40	5.60	10.00	1.4589	-1.0782	0.2115	0.0000
	14.10	6.20	9.70	1.4623	-1.0807	0.2117	0.0049
	13.80	6.80	9.40	1.4642	-1.0836	0.2151	0.0102
	13.50	7.40	9.10	1.4665	-1.0836	0.2127	0.0140
	13.20	8.00	8.80	1.4731	-1.0861	0.2190	0.0225
	12.90	8.60	8.50	1.4749	-1.0809	0.2122	0.0326
	12.60	9.20	8.20	1.4861	-1.0562	0.2043	0.0593
	12.30	9.80	7.90	1.4944	-0.9802	0.1645	0.1543
	12.00	10.40	7.60	1.4952	-0.8355	0.0739	0.3480
	11.70	11.00	7.30	1.5078	-0.6938	-0.0265	0.5438
	11.40	11.60	7.00	1.5194	-0.4888	-0.1819	0.8404

FILE NAME	(CONTINUED)						:	A*CE.1C
	11.10	12.20	6.70	1.5201	-0.2408	-0.3528	1.1843	
	10.80	12.80	6.40	1.5229	0.0811	-0.6137	1.6608	
	10.50	13.40	6.10	1.5241	0.4501	-0.9088	2.2041	
	10.20	14.00	5.80	1.5136	0.8963	-1.2671	2.8630	
	9.90	14.60	5.50	1.4854	1.4856	-1.7798	3.7649	
	9.60	15.20	5.20	1.4509	2.1896	-2.4155	4.8607	
	9.30	15.80	4.90	1.3807	3.0835	-3.2630	6.2853	
	9.00	16.40	4.60	1.2299	4.2907	-4.4607	8.2543	
	8.70	17.00	4.30	0.9889	5.9314	-6.1484	10.9797	
E	8.40	17.60	4.00	0.3622	8.8981	-9.4233	16.0954	

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FILE NAME                               :      A*CF.1C
NUMBER OF POINTS                       :           58
APPARATUS USED                         :      CUB TRI
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      10.0
INITIAL RELATIVE DENSITY DR ( % )     :      72.0
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PT.    SIG.    SIG.    SIG.    EPS.    EPS.    EPS.    G-OCT.
      X      Y      Z      X      Y      Z      UPDAT.
      PSI    PSI    PSI      %      %      %      %
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      2.00    2.00    2.00    0.0000    0.0000    0.0000    0.0000
      2.50    2.50    2.50    0.0107    0.0134    0.0104    0.0027
      3.00    3.00    3.00    0.0169    0.0162    0.0196    0.0080
      3.50    3.50    3.50    0.0284    0.0222    0.0226    0.0151
      4.00    4.00    4.00    0.0284    0.0292    0.0316    0.0229
      4.50    4.50    4.50    0.0329    0.0372    0.0364    0.0261
      5.00    5.00    5.00    0.0384    0.0422    0.0378    0.0297
      5.50    5.50    5.50    0.0462    0.0391    0.0396    0.0386
      6.00    6.00    6.00    0.0504    0.0434    0.0526    0.0469
      6.50    6.50    6.50    0.0521    0.0490    0.0542    0.0506
      7.00    7.00    7.00    0.0561    0.0551    0.0578    0.0528
      7.50    7.50    7.50    0.0567    0.0595    0.0600    0.0559
      8.00    8.00    8.00    0.0632    0.0617    0.0634    0.0595
      8.50    8.50    8.50    0.0620    0.0640    0.0658    0.0629
      9.00    9.00    9.00    0.0682    0.0674    0.0710    0.0652
      9.50    9.50    9.50    0.0654    0.0673    0.0696    0.0674
      10.00   10.00   10.00   0.0697    0.0695    0.0710    0.0699
A*    10.00   10.00   10.00   0.0668    0.0705    0.0766    0.0000
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      10.40    9.60    10.00    0.0720    0.0662    0.0737    0.0083
      10.80    9.20    10.00    0.0760    0.0684    0.0747    0.0108
      11.20    8.80    10.00    0.0860    0.0695    0.0743    0.0200
      11.60    8.40    10.00    0.0939    0.0658    0.0792    0.0298
      12.00    8.00    10.00    0.1210    0.0605    0.0840    0.0569
      12.40    7.60    10.00    0.1638    0.0250    0.0973    0.1214
      12.80    7.20    10.00    0.2920   -0.0689    0.1208    0.3028
      13.20    6.80    10.00    0.4632   -0.2150    0.1490    0.5624
      13.60    6.40    10.00    0.7189   -0.4202    0.1737    0.9386
      14.00    6.00    10.00    1.0427   -0.7195    0.2279    1.4490
      14.40    5.60    10.00    1.4152   -1.0830    0.2716    2.0510
C    14.40    5.60    10.00    1.4238   -1.0834    0.2737    0.0000
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      14.00    6.00    10.00    1.4249   -1.0922    0.2734    0.0088
      13.60    6.40    10.00    1.4248   -1.0948    0.2744    0.0117
      13.20    6.80    10.00    1.4242   -1.0904    0.2754    0.0159
      12.80    7.20    10.00    1.4220   -1.0975    0.2783    0.0241
      12.40    7.60    10.00    1.4265   -1.0931    0.2754    0.0310
      12.00    8.00    10.00    1.4249   -1.0973    0.2802    0.0385
      11.60    8.40    10.00    1.4214   -1.0901    0.2824    0.0472
      11.20    8.80    10.00    1.4243   -1.0859    0.2826    0.0505
      10.80    8.20    10.00    1.4179   -1.0750    0.2805    0.0652
      10.40    7.60    10.00    1.4036   -1.0497    0.2847    0.0976
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FILE NAME (CONTINUED)			:				A*CF.1C
10.00	10.00	10.00	1.3945	-1.0043	0.2866	0.1446	
9.60	10.40	10.00	1.3727	-0.9305	0.2870	0.2262	
9.20	10.80	10.00	1.3225	-0.8340	0.2896	0.3476	
8.80	11.20	10.00	1.2475	-0.7195	0.2916	0.5033	
8.40	11.60	10.00	1.1575	-0.5836	0.3021	0.6881	
8.00	12.00	10.00	1.0467	-0.4425	0.3137	0.8938	
7.60	12.40	10.00	0.9071	-0.2360	0.3203	1.1776	
7.20	12.80	10.00	0.7214	-0.0195	0.3412	1.5059	
6.80	13.20	10.00	0.5259	0.2129	0.3616	1.8553	
6.40	13.60	10.00	0.2746	0.4904	0.3912	2.2874	
6.00	14.00	10.00	-0.0269	0.8205	0.4079	2.8031	
5.60	14.40	10.00	-0.4426	1.2334	0.4531	3.4811	
5.20	14.80	10.00	-0.8918	1.6511	0.4871	4.1904	
4.80	15.20	10.00	-1.6178	2.2833	0.5540	5.3045	
4.40	15.60	10.00	-2.7795	3.2177	0.6374	7.0261	
4.00	16.00	10.00	-3.7648	3.9297	0.7137	8.4264	
3.60	16.40	10.00	-5.6957	5.2390	0.8255	11.1018	
F 3.20	16.80	10.00	-18.724	13.5550	1.2453	28.7247	

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FILE NAME                               :      A*CG.1C
NUMBER OF POINTS                       :      51
APPARATUS USED                         :      CUB TRI
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      10.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0174	0.0082	0.0003	0.0140
	3.00	3.00	3.00	0.0265	0.0161	0.0151	0.0200
	3.50	3.50	3.50	0.0307	0.0243	0.0242	0.0244
	4.00	4.00	4.00	0.0348	0.0297	0.0302	0.0259
	4.50	4.50	4.50	0.0403	0.0341	0.0381	0.0288
	5.00	5.00	5.00	0.0422	0.0440	0.0397	0.0364
	5.50	5.50	5.50	0.0442	0.0489	0.0457	0.0398
	6.00	6.00	6.00	0.0493	0.0484	0.0549	0.0478
	6.50	6.50	6.50	0.0552	0.0527	0.0533	0.0542
	7.00	7.00	7.00	0.0542	0.0584	0.0569	0.0598
	7.50	7.50	7.50	0.0611	0.0618	0.0598	0.0633
	8.00	8.00	8.00	0.0588	0.0645	0.0621	0.0678
	8.50	8.50	8.50	0.0732	0.0690	0.0624	0.0797
	9.00	9.00	9.00	0.0661	0.0705	0.0704	0.0921
	9.50	9.50	9.50	0.0698	0.0728	0.0725	0.0936
A*	10.00	10.00	10.00	0.0762	0.0781	0.0798	0.0952
	10.00	10.00	10.00	0.0727	0.0804	0.0740	0.0000
	10.40	9.60	10.00	0.0791	0.0804	0.0763	0.0053
	10.80	9.20	10.00	0.0826	0.0754	0.0770	0.0124
	11.20	8.80	10.00	0.0867	0.0767	0.0771	0.0157
	11.60	8.40	10.00	0.1018	0.0761	0.0790	0.0295
	12.00	8.00	10.00	0.1247	0.0640	0.0800	0.0584
	12.40	7.60	10.00	0.1930	0.0346	0.0940	0.1383
	12.80	7.20	10.00	0.3204	-0.0353	0.1050	0.3002
	13.20	6.80	10.00	0.5200	-0.1924	0.1361	0.5916
	13.60	6.40	10.00	0.7931	-0.4178	0.1693	0.9988
	14.00	6.00	10.00	1.1095	-0.7089	0.2148	1.4957
	14.40	5.60	10.00	1.5581	-1.1443	0.2617	2.2186
C	14.40	5.60	10.00	1.5563	-1.1443	0.2613	0.0000
	14.00	6.00	10.00	1.5594	-1.1496	0.2649	0.0082
	14.40	5.60	10.00	1.5676	-1.1518	0.2675	0.0167
	13.80	5.90	10.30	1.5645	-1.1479	0.2712	0.0233
	13.20	6.20	10.60	1.5684	-1.1491	0.2750	0.0280
	12.60	6.50	10.90	1.5711	-1.1480	0.2762	0.0294
	12.00	6.80	11.20	1.5663	-1.1473	0.2783	0.0353
	11.40	7.10	11.50	1.5692	-1.1436	0.2860	0.0394
	10.80	7.40	11.80	1.5630	-1.1467	0.2976	0.0550
	10.20	7.70	12.10	1.5517	-1.1442	0.3146	0.0781
	9.60	8.00	12.40	1.5235	-1.1426	0.3657	0.1436

FILE NAME	(CONTINUED)	:	A*CG.1C
9.00	8.30 12.70	1.4651 -1.1257	0.4430 0.2546
8.40	8.60 13.00	1.3455 -1.0743	0.5656 0.4578
7.80	8.90 13.30	1.2046 -1.0137	0.6920 0.6853
7.20	9.20 13.60	0.9561 -0.9046	0.9125 1.0853
6.60	9.50 13.90	0.6516 -0.7832	1.1608 1.5583
6.00	9.80 14.20	0.2464 -0.6380	1.4708 2.1699
5.40	10.10 14.50	-0.3007 -0.4832	1.8837 2.9811
4.80	10.40 14.80	-1.1041 -0.2289	2.4424 4.1485
4.20	10.70 15.10	-2.2630 0.0804	3.1722 5.7679
3.60	11.00 15.40	-4.2627 0.5878	4.3005 8.4722
G 3.00	11.30 15.70	-13.158 2.7280	8.9772 20.2929

FILE NAME	(CONTINUED)	:	A*CH.1C
10.00	5.60 14.40	1.3116 -1.4477	0.8217 0.9074
9.60	5.60 14.80	1.2838 -1.6024	1.0396 1.2167
9.20	5.60 15.20	1.2278 -1.7591	1.2909 1.5637
8.80	5.60 15.60	1.1370 -1.9751	1.6013 2.0129
8.40	5.60 16.00	1.0011 -2.1841	1.9540 2.5116
8.00	5.60 16.40	0.8143 -2.4634	2.3962 3.1527
7.60	5.60 16.80	0.5836 -2.7414	2.8888 3.8579
7.20	5.60 17.20	0.2710 -3.1029	3.4894 4.7429
6.80	5.60 17.60	-0.1434 -3.4756	4.1808 5.7663
6.40	5.60 18.00	-0.7128 -4.0257	5.0979 7.1588
6.00	5.60 18.40	-1.6090 -4.7171	6.3162 9.0532
5.60	5.60 18.80	-3.7619 -6.5076	9.0804 13.5380
H 5.20	5.60 19.20	-22.523 -24.253	21.4539 42.4251

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FILE NAME                               : A*CH.1C
NUMBER OF POINTS                       : 53
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 10.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0074	0.0137	0.0050	0.0073
	3.00	3.00	3.00	0.0230	0.0201	0.0200	0.0156
	3.50	3.50	3.50	0.0310	0.0276	0.0208	0.0221
	4.00	4.00	4.00	0.0351	0.0325	0.0301	0.0267
	4.50	4.50	4.50	0.0369	0.0418	0.0342	0.0329
	5.00	5.00	5.00	0.0389	0.0505	0.0369	0.0390
	5.50	5.50	5.50	0.0418	0.0481	0.0401	0.0441
	6.00	6.00	6.00	0.0520	0.0519	0.0483	0.0495
	6.50	6.50	6.50	0.0476	0.0598	0.0546	0.0605
	7.00	7.00	7.00	0.0550	0.0603	0.0566	0.0665
	7.50	7.50	7.50	0.0552	0.0711	0.0590	0.0757
	8.00	8.00	8.00	0.0611	0.0707	0.0625	0.0808
	8.50	8.50	8.50	0.0576	0.0709	0.0674	0.0877
	9.00	9.00	9.00	0.0656	0.0715	0.0673	0.0950
	9.50	9.50	9.50	0.0687	0.0784	0.0710	0.0984
	10.00	10.00	10.00	0.0720	0.0742	0.0736	0.1053
A*	10.00	10.00	10.00	0.0711	0.0796	0.0754	0.0000
	10.40	9.60	10.00	0.0808	0.0780	0.0766	0.0096
	10.80	9.20	10.00	0.0809	0.0776	0.0768	0.0102
	11.20	8.80	10.00	0.0830	0.0781	0.0727	0.0154
	11.50	8.40	10.00	0.1001	0.0740	0.0783	0.0328
	12.00	8.00	10.00	0.1138	0.0676	0.0786	0.0496
	12.40	7.60	10.00	0.1473	0.0501	0.0785	0.0919
	12.80	7.20	10.00	0.2348	-0.0020	0.0825	0.2065
	13.20	6.80	10.00	0.3893	-0.1240	0.0990	0.4324
	13.60	6.40	10.00	0.6339	-0.3177	0.1160	0.7903
	14.00	6.00	10.00	0.9364	-0.6021	0.1522	1.2702
	14.40	5.60	10.00	1.3317	-0.9888	0.1836	1.9092
C	14.40	5.60	10.00	1.3390	-0.9927	0.1889	0.0000
	14.00	5.60	10.40	1.3482	-0.9941	0.1929	0.0087
	13.60	5.60	10.80	1.3398	-0.9963	0.2002	0.0216
	13.20	5.60	11.20	1.3436	-1.0003	0.2035	0.0287
	12.80	5.60	11.60	1.3488	-1.0040	0.2133	0.0398
	12.40	5.60	12.00	1.3505	-1.0110	0.2267	0.0566
	12.00	5.60	12.40	1.3489	-1.0288	0.2434	0.0848
	11.60	5.60	12.80	1.3500	-1.0636	0.2984	0.1586
	11.20	5.60	13.20	1.3528	-1.1249	0.3755	0.2717
	10.80	5.60	13.60	1.3471	-1.2129	0.4932	0.4408
	10.40	5.60	14.00	1.3349	-1.3234	0.6424	0.6549

FILE NAME	:	O2.1C
NUMBER OF POINTS	:	11
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFIMENT STRESS (PSI)	:	2.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
0	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.20	1.90	1.90	0.2530	0.1015	-0.2711	0.4404
	2.40	1.80	1.80	0.5204	0.1596	-0.5410	0.6377
	2.60	1.70	1.70	1.0181	0.1943	-0.9606	1.6316
	2.80	1.60	1.60	1.7047	0.1975	-1.5784	2.6971
	3.00	1.50	1.50	2.6876	0.1127	-2.4176	4.1922
	3.20	1.40	1.40	3.7443	-0.1188	-3.2604	5.7756
	3.40	1.30	1.30	4.0192	-0.3398	-3.2823	6.1831
	3.60	1.20	1.20	4.4860	-0.6638	-3.4126	6.8562
	3.80	1.10	1.10	6.1098	-1.7991	-4.2244	9.3193
2	4.00	1.00	1.00	10.1206	-4.8737	-6.8972	15.8183

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FILE NAME                               :          Q8.1C
NUMBER OF POINTS                       :             10
APPARATUS USED                         :          CUB TRI
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :          7*7*7
INITIAL CCNFIMENT STRESS                (PSI)      :             2.0
INITIAL RELATIVE DENSITY      DR ( % )   :             72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
0	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	1.80	2.10	2.10	0.0014	0.0105	0.0082	0.0077
	1.60	2.20	2.20	-0.0005	0.0237	0.0128	0.0202
	1.40	2.30	2.30	-0.0127	0.0688	0.0604	0.0753
	1.20	2.40	2.40	-0.1126	0.1466	0.1363	0.2421
	1.00	2.50	2.50	-0.4320	0.3787	0.3212	0.7412
	0.80	2.60	2.60	-0.9423	0.6834	0.6232	1.5084
	0.60	2.70	2.70	-2.1333	1.3453	1.2455	3.2369
	0.40	2.80	2.80	-3.7147	2.0764	2.0754	5.4652
8	0.20	2.90	2.90	-9.7963	4.5881	4.7795	13.6592

FILE NAME	:	A8.1C
NUMBER OF POINTS	:	21
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0156	0.0056	0.0164	0.0099
	3.00	3.00	3.00	0.0185	0.0175	0.0243	0.0172
	3.50	3.50	3.50	0.0263	0.0208	0.0353	0.0236
	4.00	4.00	4.00	0.0319	0.0342	0.0421	0.0305
	4.50	4.50	4.50	0.0358	0.0376	0.0455	0.0309
	5.00	5.00	5.00	0.0384	0.0420	0.0476	0.0329
A	5.00	5.00	5.00	0.0402	0.0431	0.0501	0.0000
	4.70	5.15	5.15	0.0428	0.0443	0.0515	0.0013
	4.40	5.30	5.30	0.0373	0.0507	0.0559	0.0117
	4.10	5.45	5.45	0.0358	0.0567	0.0651	0.0206
	3.80	5.60	5.60	0.0240	0.0751	0.0783	0.0470
	3.50	5.75	5.75	-0.0115	0.1089	0.1055	0.1095
	3.20	5.90	5.90	-0.1653	0.2305	0.2066	0.3600
	2.90	6.05	6.05	-0.3805	0.3803	0.3414	0.6974
	2.60	6.20	6.20	-0.7282	0.5879	0.5351	1.2144
	2.30	6.35	6.35	-1.2473	0.9078	0.8136	1.9867
	2.00	6.50	6.50	-1.9408	1.2523	1.1660	2.9690
	1.70	6.65	6.65	-2.9694	1.7389	1.6784	4.4099
	1.40	6.80	6.80	-4.8044	2.5315	2.5039	6.9029
8	1.10	6.95	6.95	-11.243	5.2519	5.0923	15.4765

FILE NAME	:	A2.1C
NUMBER OF POINTS	:	20
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	5.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0201	0.0145	0.0058	0.0118
	3.00	3.00	3.00	0.0344	0.0296	0.0193	0.0131
	3.50	3.50	3.50	0.0444	0.0385	0.0318	0.0162
	4.00	4.00	4.00	0.0525	0.0442	0.0396	0.0183
	4.50	4.50	4.50	0.0571	0.0488	0.0374	0.0247
	5.00	5.00	5.00	0.0541	0.0506	0.0455	0.0338
A	5.00	5.00	5.00	0.0613	0.0553	0.0440	0.0000
	5.40	4.80	4.80	0.0676	0.0545	0.0461	0.0059
	5.80	4.60	4.60	0.0723	0.0526	0.0450	0.0117
	6.20	4.40	4.40	0.1008	0.0512	0.0375	0.0432
	6.60	4.20	4.20	0.1989	0.0396	0.0174	0.1508
	7.00	4.00	4.00	0.4189	0.0034	-0.0422	0.4041
	7.40	3.80	3.80	0.8062	-0.1279	-0.1724	0.8925
	7.80	3.60	3.60	1.3019	-0.3155	-0.3717	1.5423
	8.20	3.40	3.40	1.9789	-0.5523	-0.7006	2.4505
	8.60	3.20	3.20	2.9320	-1.0307	-1.1227	3.7743
	9.00	3.00	3.00	4.2254	-1.7472	-1.7865	5.6449
	9.40	2.80	2.80	6.7010	-3.3179	-3.2493	9.4100
2	9.80	2.60	2.60	19.0123	-20.489	-19.246	36.6696

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FILE NAME                               : A**8.1C
NUMBER OF POINTS                        : 29
APPARATUS USED                          : CUB TRI
TYPE OF TEST                            : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)         : 8.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0091	0.0146	0.0122	0.0045
	3.00	3.00	3.00	0.0100	0.0175	0.0241	0.0141
	3.50	3.50	3.50	0.0152	0.0272	0.0270	0.0197
	4.00	4.00	4.00	0.0266	0.0339	0.0367	0.0236
	4.50	4.50	4.50	0.0299	0.0351	0.0416	0.0266
	5.00	5.00	5.00	0.0331	0.0385	0.0474	0.0290
	5.50	5.50	5.50	0.0356	0.0463	0.0486	0.0347
	6.00	6.00	6.00	0.0383	0.0545	0.0530	0.0392
	6.50	6.50	6.50	0.0431	0.0507	0.0584	0.0476
	7.00	7.00	7.00	0.0465	0.0591	0.0588	0.0542
	7.50	7.50	7.50	0.0477	0.0613	0.0658	0.0593
	8.00	8.00	8.00	0.0553	0.0649	0.0683	0.0637
A**	8.00	8.00	8.00	0.0512	0.0642	0.0668	0.0000
	7.60	8.20	8.20	0.0558	0.0605	0.0688	0.0069
	7.20	8.40	8.40	0.0507	0.0680	0.0701	0.0171
	6.80	8.50	8.60	0.0493	0.0725	0.0805	0.0268
	6.40	8.80	8.80	0.0369	0.0807	0.0983	0.0520
	6.00	9.00	9.00	0.0037	0.1131	0.1275	0.1124
	5.60	9.20	9.20	-0.0832	0.1839	0.1795	0.2530
	5.20	9.40	9.40	-0.2426	0.3002	0.2886	0.5096
	4.80	9.60	9.60	-0.4764	0.4442	0.4407	0.8697
	4.40	9.80	9.80	-0.8329	0.6589	0.6318	1.3974
	4.00	10.00	10.00	-1.2664	0.8810	0.8745	2.0255
	3.60	10.20	10.20	-1.8392	1.1828	1.1715	2.8478
	3.20	10.40	10.40	-2.7754	1.6341	1.6152	4.1524
	2.80	10.60	10.60	-4.1663	2.2372	2.2280	5.0370
	2.40	10.80	10.80	-6.5118	3.1772	3.1972	9.1484
8	2.00	11.00	11.00	-21.244	8.9925	8.8246	28.4330

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FILE NAME                               : A**2.1C
NUMBER OF POINTS                        : 31
APPARATUS USED                          : CUB TRI
TYPE OF TEST                            : DRAINEL
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)         : 8.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0117	0.0055	0.0200	0.0119
	3.00	3.00	3.00	0.0293	0.0174	0.0316	0.0174
	3.50	3.50	3.50	0.0386	0.0221	0.0444	0.0239
	4.00	4.00	4.00	0.0481	0.0347	0.0530	0.0273
	4.50	4.50	4.50	0.0500	0.0385	0.0582	0.0300
	5.00	5.00	5.00	0.0594	0.0436	0.0618	0.0349
	5.50	5.50	5.50	0.0633	0.0453	0.0661	0.0372
	6.00	6.00	6.00	0.0605	0.0534	0.0782	0.0498
	6.50	6.50	6.50	0.0644	0.0541	0.0807	0.0524
	7.00	7.00	7.00	0.0709	0.0628	0.0810	0.0595
	7.50	7.50	7.50	0.0731	0.0640	0.0808	0.0614
	8.00	8.00	8.00	0.0797	0.0673	0.0823	0.0656
A**	8.00	8.00	8.00	0.0780	0.0683	0.0842	0.0000
	8.40	7.80	7.80	0.0835	0.0690	0.0876	0.0039
	8.80	7.60	7.60	0.0848	0.0653	0.0857	0.0080
	9.20	7.40	7.40	0.0964	0.0640	0.0852	0.0198
	9.60	7.20	7.20	0.1051	0.0665	0.0829	0.0288
	10.00	7.00	7.00	0.1552	0.0552	0.0733	0.0859
	10.40	6.80	6.80	0.2554	0.0497	0.0515	0.1941
	10.80	6.60	6.60	0.4389	0.0225	0.0036	0.4031
	11.20	6.40	6.40	0.6642	-0.0343	-0.0735	0.6793
	11.60	6.20	6.20	1.0395	-0.1473	-0.2114	1.1518
	12.00	6.00	6.00	1.4344	-0.2836	-0.3604	1.6587
	12.40	5.80	5.80	1.9061	-0.4496	-0.5671	2.2800
	12.80	5.60	5.60	2.5029	-0.7121	-0.8290	3.0899
	13.20	5.40	5.40	3.2250	-1.0349	-1.1638	4.0808
	13.60	5.20	5.20	4.0714	-1.4427	-1.6219	5.2876
	14.00	5.00	5.00	5.2465	-2.0709	-2.2575	6.9912
	14.40	4.80	4.80	6.8171	-2.9859	-3.1976	9.3466
2	14.80	4.60	4.60	10.8481	-5.7786	-5.9092	15.7422

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FILE NAME                               : A*8.1C
NUMBER OF POINTS                       : 36
APPARATUS USED                         : CUB TRI
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 10.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0116	0.0095	0.0109	0.0017
	3.00	3.00	3.00	0.0237	0.0178	0.0258	0.0071
	3.50	3.50	3.50	0.0309	0.0147	0.0331	0.0169
	4.00	4.00	4.00	0.0392	0.0234	0.0405	0.0179
	4.50	4.50	4.50	0.0411	0.0229	0.0421	0.0200
	5.00	5.00	5.00	0.0378	0.0303	0.0485	0.0297
	5.50	5.50	5.50	0.0516	0.0337	0.0551	0.0383
	6.00	6.00	6.00	0.0481	0.0397	0.0589	0.0465
	6.50	6.50	6.50	0.0501	0.0421	0.0640	0.0492
	7.00	7.00	7.00	0.0576	0.0406	0.0745	0.0595
	7.50	7.50	7.50	0.0558	0.0438	0.0747	0.0636
	8.00	8.00	8.00	0.0601	0.0487	0.0741	0.0685
	8.50	8.50	8.50	0.0632	0.0484	0.0803	0.0739
	9.00	9.00	9.00	0.0637	0.0549	0.0844	0.0787
	9.50	9.50	9.50	0.0670	0.0547	0.0871	0.0816
	10.00	10.00	10.00	0.0686	0.0576	0.0911	0.0836
A*	10.00	10.00	10.00	0.0693	0.0588	0.0914	0.0000
	9.60	10.20	10.20	0.0721	0.0607	0.0907	0.0030
	9.20	10.40	10.40	0.0683	0.0597	0.0909	0.0064
	8.80	10.60	10.60	0.0637	0.0623	0.0939	0.0133
	8.40	10.80	10.80	0.0659	0.0625	0.0993	0.0177
	8.00	11.00	11.00	0.0559	0.0717	0.1038	0.0339
	7.60	11.20	11.20	0.0412	0.0836	0.1131	0.0579
	7.20	11.40	11.40	0.0124	0.1040	0.1336	0.1044
	6.80	11.60	11.60	-0.0659	0.1596	0.1749	0.2244
	6.40	11.80	11.80	-0.2068	0.2608	0.2547	0.4433
	6.00	12.00	12.00	-0.4421	0.4340	0.3795	0.8078
	5.60	12.20	12.20	-0.7256	0.6164	0.5168	1.2274
	5.20	12.40	12.40	-1.0788	0.8197	0.7060	1.7455
	4.80	12.60	12.60	-1.6532	1.1383	0.9804	2.5674
	4.40	12.80	12.80	-2.2864	1.4605	1.2777	3.4567
	4.00	13.00	13.00	-3.0944	1.8324	1.6438	4.5664
	3.60	13.20	13.20	-4.4588	2.4271	2.2325	6.4107
	3.20	13.40	13.40	-6.6469	3.2822	3.1210	9.2956
8	2.80	13.60	13.60	-16.288	8.1357	6.9426	22.5018

FILE NAME	:	A*2.1C
NUMBER OF POINTS	:	39
APPARATUS USED	:	CUB TRI
TYPE OF TEST	:	DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)	:	7*7*7
INITIAL CONFINMENT STRESS (PSI)	:	10.0
INITIAL RELATIVE DENSITY DR (%)	:	72.0

PT.	SIG. X PSI	SIG. Y PSI	SIG. Z PSI	EPS. X %	EPS. Y %	EPS. Z %	G-OCT. UPDAT. %
	2.00	2.00	2.00	0.0000	0.0000	0.0000	0.0000
	2.50	2.50	2.50	0.0148	0.0027	0.0032	0.0112
	3.00	3.00	3.00	0.0233	0.0091	0.0067	0.0153
	3.50	3.50	3.50	0.0292	0.0145	0.0145	0.0173
	4.00	4.00	4.00	0.0358	0.0185	0.0229	0.0209
	4.50	4.50	4.50	0.0420	0.0228	0.0295	0.0230
	5.00	5.00	5.00	0.0491	0.0316	0.0353	0.0254
	5.50	5.50	5.50	0.0492	0.0294	0.0377	0.0292
	6.00	6.00	6.00	0.0603	0.0350	0.0427	0.0346
	6.50	6.50	6.50	0.0595	0.0383	0.0465	0.0388
	7.00	7.00	7.00	0.0664	0.0367	0.0472	0.0460
	7.50	7.50	7.50	0.0661	0.0454	0.0515	0.0534
	8.00	8.00	8.00	0.0714	0.0462	0.0572	0.0578
	8.50	8.50	8.50	0.0702	0.0491	0.0580	0.0612
	9.00	9.00	9.00	0.0743	0.0512	0.0606	0.0629
	9.50	9.50	9.50	0.0770	0.0578	0.0661	0.0662
	10.00	10.00	10.00	0.0816	0.0509	0.0725	0.0779
A*	10.00	10.00	10.00	0.0823	0.0529	0.0692	0.0000
	10.40	9.80	9.80	0.0863	0.0673	0.0734	0.0096
	10.80	9.60	9.60	0.0877	0.0641	0.0738	0.0135
	11.20	9.40	9.40	0.0856	0.0624	0.0727	0.0143
	11.60	9.20	9.20	0.0976	0.0634	0.0724	0.0253
	12.00	9.00	9.00	0.1251	0.0630	0.0674	0.0540
	12.40	8.80	8.80	0.1639	0.0604	0.0579	0.0967
	12.80	8.60	8.60	0.2401	0.0499	0.0386	0.1828
	13.20	8.40	8.40	0.3526	0.0356	0.0009	0.3148
	13.60	8.20	8.20	0.5259	0.0043	-0.0540	0.5198
	14.00	8.00	8.00	0.7470	-0.0554	-0.1411	0.7983
	14.40	7.80	7.80	1.0098	-0.1413	-0.2417	1.1333
	14.80	7.60	7.60	1.3576	-0.2462	-0.3937	1.5849
	15.20	7.40	7.40	1.7015	-0.3770	-0.5436	2.0416
	15.60	7.20	7.20	2.1687	-0.5639	-0.7593	2.6724
	16.00	7.00	7.00	2.6592	-0.7711	-0.9908	3.3419
	16.40	6.80	6.80	3.2729	-1.0524	-1.3026	4.2005
	16.80	6.60	6.60	4.0029	-1.3928	-1.7037	5.2395
	17.20	6.40	6.40	4.7981	-1.8050	-2.1525	6.3955
	17.60	6.20	6.20	5.8281	-2.3846	-2.7683	7.9304
	18.00	6.00	6.00	7.1786	-3.2287	-3.6355	10.0104
2	18.40	5.80	5.80	10.4723	-5.5289	-5.9168	15.2755

Directional Shear Cell Experiments

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FILE NAME                               :          AB1.1D
NUMBER OF POINTS                       :              30
APPARATUS USED                         :          DIR SHR
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :          7*7*7
INITIAL CONFINMENT STRESS (PSI)        :              5.0
INITIAL RELATIVE DENSITY DR ( % )     :          72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	5.00	0.000	0.0027	-0.0028	-0.0010	0.0046
	5.40	4.60	5.00	0.000	0.0064	-0.0040	-0.0029	0.0089
	5.60	4.40	4.99	0.000	0.0094	-0.0039	-0.0065	0.0126
	5.80	4.20	4.97	0.000	0.0124	-0.0066	-0.0037	0.0162
	6.00	4.00	4.96	0.000	0.0187	-0.0071	-0.0027	0.0223
	6.20	3.80	4.93	0.000	0.0264	-0.0105	-0.0006	0.0315
	6.40	3.60	4.88	0.000	0.0380	-0.0214	-0.0030	0.0499
	6.60	3.40	4.83	0.000	0.0565	-0.0353	-0.0063	0.0766
	6.80	3.20	4.76	0.000	0.0871	-0.0556	-0.0006	0.1183
	7.00	3.00	4.68	0.000	0.1340	-0.0893	0.0025	0.1844
	7.20	2.80	4.62	0.000	0.2259	-0.1551	0.0064	0.3137
	7.40	2.60	4.56	0.000	0.3396	-0.2475	0.0152	0.4825
	7.60	2.40	4.57	0.000	0.5047	-0.3844	0.0254	0.7295
	7.80	2.20	4.57	0.000	0.7557	-0.6187	0.0326	1.1258
B	7.80	2.20	4.57	0.000	0.7591	-0.6186	0.0328	0.0000
	8.00	2.00	4.62	0.000	1.0621	-0.9198	0.0370	0.4933
	8.20	1.80	4.65	0.000	1.4910	-1.3759	0.0424	1.2160
1	8.20	1.80	4.65	0.000	1.5001	-1.3792	0.0395	0.0000
	8.00	2.00	4.65	0.000	1.4993	-1.3785	0.0437	0.0012
	7.80	2.20	4.64	0.000	1.4987	-1.3754	0.0416	0.0044
B	7.80	2.20	4.64	0.000	1.4987	-1.3780	0.0394	0.0000
	7.40	2.60	4.63	0.000	1.4947	-1.3706	0.0420	0.0094
	7.00	3.00	4.63	0.000	1.4908	-1.3616	0.0454	0.0202
	6.60	3.40	4.61	0.000	1.4895	-1.3543	0.0466	0.0277
	6.20	3.80	4.61	0.000	1.4850	-1.3417	0.0459	0.0422
	5.80	4.20	4.59	0.000	1.4767	-1.3218	0.0545	0.0658
	5.40	4.60	4.57	0.000	1.4683	-1.2910	0.0570	0.0994
	5.00	5.00	4.50	0.000	1.4439	-1.2246	0.0631	0.1760
A	5.00	5.00	4.50	0.000	1.4430	-1.2242	0.0579	0.0000

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FILE NAME                               :      AB2.1D
NUMBER OF POINTS                       :      28
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,V,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      5.0
INITIAL RELATIVE DENSITY DR ( % )     :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0047	-0.0017	-0.0011	0.0055
	5.40	4.60	4.97	0.000	0.0030	-0.0047	-0.0004	0.0079
	5.60	4.40	4.95	0.000	0.0100	-0.0059	-0.0014	0.0152
	5.80	4.20	4.93	0.000	0.0142	-0.0079	0.0000	0.0203
	6.00	4.00	4.90	0.000	0.0209	-0.0127	0.0041	0.0299
	6.20	5.80	4.90	0.000	0.0238	-0.0122	0.0030	0.0324
	6.20	3.80	4.86	0.000	0.0285	-0.0196	0.0008	0.0423
	6.40	3.60	4.82	0.000	0.0430	-0.0284	0.0003	0.0615
	6.60	3.40	4.76	0.000	0.0667	-0.0417	0.0050	0.0921
	6.80	3.20	4.69	0.000	0.1028	-0.0668	0.0132	0.1427
	7.00	3.00	4.62	0.000	0.1539	-0.1017	0.0105	0.2132
	7.20	2.80	4.55	0.000	0.2555	-0.1737	0.0183	0.3557
	7.40	2.60	4.50	0.000	0.3830	-0.2769	0.0309	0.5446
	7.70	2.30	4.51	0.000	0.6656	-0.5191	0.0419	0.9736
B	7.70	2.30	4.52	0.000	0.6690	-0.5210	0.0429	0.0000
	7.95	2.05	4.49	0.100	1.1434	-0.9839	0.0762	0.7658
	8.10	1.90	4.54	0.160	1.5227	-1.3693	0.1352	1.3917
2	8.10	1.90	4.54	0.160	1.5252	-1.3713	0.1329	0.0000
	7.70	2.30	4.53	0.000	1.5264	-1.3675	0.1400	0.0030
B	7.70	2.30	4.53	0.000	1.5225	-1.3670	0.1421	0.0000
	7.40	2.60	4.52	0.000	1.5218	-1.3625	0.1452	0.0045
	7.00	3.00	4.51	0.000	1.5206	-1.3551	0.1409	0.0122
	6.60	3.40	4.50	0.000	1.5190	-1.3468	0.1407	0.0209
	6.20	3.80	4.50	0.000	1.5171	-1.3322	0.1354	0.0358
	5.80	4.20	4.49	0.000	1.5127	-1.3151	0.1329	0.0545
	5.40	4.60	4.46	0.000	1.4977	-1.2828	0.1395	0.0936
A	5.00	5.00	4.43	0.000	1.4759	-1.2244	0.1370	0.1614

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FILE NAME                               :      AB3.1D
NUMBER OF POINTS                       :      28
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINCD
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      5.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0018	-0.0017	0.0031	0.0038
	5.40	4.60	4.98	0.000	0.0056	-0.0032	-0.0062	0.0089
	5.60	4.40	4.96	0.000	0.0108	-0.0025	-0.0024	0.0125
	5.80	4.20	4.95	0.000	0.0145	-0.0021	-0.0010	0.0157
	6.00	4.00	4.92	0.000	-0.3024	-0.0065	0.3969	0.4347
	6.20	3.80	4.91	0.000	0.0242	-0.0113	-0.0024	0.8393
	6.40	3.60	4.87	0.000	0.0371	-0.0171	-0.0022	0.8549
	6.60	3.40	4.81	0.000	0.0554	-0.0293	-0.0031	0.8800
	6.80	3.20	4.73	0.000	0.0928	-0.0510	-0.0004	0.9287
	7.00	3.00	4.63	0.000	0.1492	-0.0919	0.0094	1.0087
	7.20	2.80	4.52	0.000	0.2893	-0.1951	0.0126	1.2081
	7.40	2.60	4.46	0.000	0.4341	-0.3155	0.0162	1.4250
	7.70	2.30	4.45	0.000	0.7639	-0.5957	0.0181	1.9235
B	7.70	2.30	4.45	0.000	0.7629	-0.5956	0.0309	0.0000
	7.80	2.20	4.45	0.100	1.0272	-0.8360	0.0308	0.4122
	7.90	2.10	4.45	0.200	1.0488	-0.8581	0.0335	0.4479
	8.00	2.00	4.42	0.300	1.3818	-1.1932	0.1115	0.9951
3	8.00	2.00	4.42	0.300	1.3852	-1.1936	0.1081	0.0000
	7.70	2.30	4.41	0.000	1.3819	-1.1905	0.1095	0.0052
B	7.70	2.30	4.41	0.000	1.3878	-1.1900	0.1151	0.0000
	7.40	2.60	4.41	0.000	1.3855	-1.1847	0.1110	0.0065
	7.00	3.00	4.40	0.000	1.3843	-1.1775	0.1116	0.0139
	6.60	3.40	4.40	0.000	1.3817	-1.1693	0.1134	0.0230
	6.20	3.80	4.39	0.000	1.3798	-1.1574	0.1151	0.0352
	5.80	4.20	4.39	0.000	1.3734	-1.1444	0.1177	0.0512
	5.40	4.60	4.37	0.000	1.3627	-1.1191	0.1142	0.0815
A	5.00	5.00	4.36	0.000	1.3447	-1.0691	0.1143	0.1390

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FILE NAME                               :      AB4.1D
NUMBER OF POINTS                       :      30
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      5.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0035	-0.0007	0.0039	0.0049
	5.40	4.60	4.98	0.000	0.0057	-0.0013	0.0005	0.0062
	5.60	4.40	4.96	0.000	0.0084	-0.0033	-0.0031	0.0104
	5.80	4.20	4.94	0.000	0.0120	-0.0040	0.0027	0.0140
	6.00	4.00	4.92	0.000	0.0172	-0.0071	0.0053	0.0210
	6.20	3.80	4.89	0.000	0.0223	-0.0111	0.0014	0.0281
	6.40	3.60	4.85	0.000	0.0332	-0.0195	0.0017	0.0439
	6.60	3.40	4.78	0.000	0.0525	-0.0303	-0.0024	0.0688
	6.80	3.20	4.71	0.000	0.0853	-0.0515	0.0033	0.1133
	7.00	3.00	4.63	0.000	0.1378	-0.0900	0.0053	0.1878
	7.20	2.80	4.54	0.000	0.2720	-0.1838	0.0078	0.3750
	7.40	2.60	4.49	0.000	0.4227	-0.3081	0.0123	0.5999
	7.70	2.30	4.51	0.000	0.6935	-0.5323	0.0246	1.0048
B	7.70	2.30	4.51	0.000	0.6949	-0.5348	0.0237	0.0000
	7.80	2.20	4.50	0.250	0.9535	-0.7712	0.0371	0.4045
	7.90	2.10	4.48	0.500	1.1691	-0.9831	0.1120	0.7555
	8.00	2.00	4.44	0.750	1.4672	-1.2887	0.2582	1.2559
4	8.00	2.00	4.45	0.750	1.4696	-1.2921	0.2530	0.0000
	7.90	2.10	4.45	0.500	1.4720	-1.2915	0.2578	0.0023
	7.80	2.20	4.46	0.250	1.4742	-1.2903	0.2608	0.0042
	7.70	2.30	4.46	0.000	1.4717	-1.2868	0.2695	0.0084
B	7.70	2.30	4.47	0.000	1.4722	-1.2858	0.2696	0.0000
	7.40	2.60	4.46	0.000	1.4659	-1.2831	0.2635	0.0080
	7.00	3.00	4.45	0.000	1.4626	-1.2739	0.2706	0.0180
	6.60	3.40	4.45	0.000	1.4592	-1.2683	0.2639	0.0259
	6.20	3.80	4.44	0.000	1.4523	-1.2577	0.2644	0.0402
	5.80	4.20	4.44	0.000	1.4493	-1.2405	0.2732	0.0572
	5.40	4.60	4.43	0.000	1.4391	-1.2134	0.2652	0.0892
A	5.00	5.00	4.42	0.000	1.4185	-1.1621	0.2705	0.1489

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FILE NAME                               :      AB6.1D
NUMBER OF POINTS                       :      30
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      5.0
INITIAL RELATIVE DENSITY DR ( % )     :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.000	0.0066	0.0003	0.0046	0.0072
	5.40	4.60	4.96	0.000	0.0074	-0.0021	0.0126	0.0138
	5.60	4.40	4.95	0.000	0.0140	-0.0031	0.0015	0.0166
	5.80	4.20	4.94	0.000	0.0175	-0.0058	0.0008	0.0216
	6.00	4.00	4.91	0.000	0.0216	-0.0100	0.0032	0.0285
	6.20	3.80	4.88	0.000	0.0256	-0.0161	0.0110	0.0379
	6.40	3.60	4.84	0.000	0.0395	-0.0257	0.0091	0.0565
	6.60	3.40	4.77	0.000	0.0636	-0.0402	0.0061	0.0880
	6.80	3.20	4.70	0.000	0.0975	-0.0631	0.0101	0.1348
	7.00	3.00	4.60	0.000	0.1666	-0.1127	0.0049	0.2319
	7.20	2.80	4.54	0.000	0.2639	-0.1851	0.0035	0.3709
	7.40	2.60	4.49	0.000	0.4129	-0.3049	0.0117	0.5909
	7.70	2.30	4.51	0.000	0.6827	-0.5412	0.0044	1.0044
B	7.70	2.30	4.51	0.000	0.6788	-0.5457	0.0052	0.0000
	7.60	2.40	4.49	0.250	0.6786	-0.5607	-0.0068	0.0139
	7.50	2.50	4.47	0.500	0.6866	-0.5663	-0.0111	0.0252
	7.40	2.60	4.46	0.750	0.6989	-0.5780	-0.0105	0.0448
	7.30	2.70	4.45	1.000	0.7389	-0.5885	0.0204	0.0883
	7.20	2.80	4.45	1.250	0.7832	-0.6169	0.0599	0.1491
	7.10	2.90	4.45	1.500	0.8304	-0.6616	0.1336	0.2280
	7.00	3.00	4.46	1.750	0.8740	-0.7196	0.2062	0.3172
	6.90	3.10	4.46	2.000	0.9305	-0.8050	0.3313	0.4485
	6.80	3.20	4.48	2.250	0.9957	-0.9266	0.5045	0.6306
	6.65	3.35	4.44	2.625	1.1306	-1.3798	0.7947	1.1788
6	6.65	3.35	4.44	2.625	1.1335	-1.3858	0.7928	0.0000
	6.90	3.10	4.43	2.000	1.1375	-1.3912	0.7940	0.0077
	7.10	2.90	4.43	1.500	1.1412	-1.3931	0.7820	0.0093
	7.30	2.70	4.43	1.000	1.1399	-1.3950	0.7593	0.0145
	7.50	2.50	4.44	0.500	1.1801	-1.3737	0.7460	0.0457
	7.70	2.30	4.53	0.000	1.3012	-1.4136	0.6910	0.1669
B	7.70	2.30	4.53	0.000	1.3080	-1.4126	0.6941	0.0000
	7.40	2.60	4.53	0.000	1.3154	-1.4018	0.6953	0.0089
	7.00	3.00	4.52	0.000	1.3179	-1.3889	0.6937	0.0201
	6.60	3.40	4.52	0.000	1.3178	-1.3755	0.6961	0.0321
	6.20	3.80	4.52	0.000	1.3151	-1.3603	0.6982	0.0470
	5.80	4.20	4.52	0.000	1.3151	-1.3355	0.6998	0.0695
	5.40	4.60	4.51	0.000	1.3075	-1.3044	0.7030	0.1014
A	5.00	5.00	4.50	0.000	1.2949	-1.2605	0.6975	0.1494

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FILE NAME                               : AB7.1D
NUMBER OF POINTS                         : 50
APPARATUS USED                           : DIR SHR
TYPE OF TEST                             : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)   : 7*7*7
INITIAL CONFINMENT STRESS (PSI)          : 5.0
INITIAL RELATIVE DENSITY DR ( % )        : 72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.000	0.0019	-0.0037	-0.0020	0.0049
	5.40	4.60	4.97	0.000	0.0073	-0.0016	-0.0015	0.0092
	5.60	4.40	4.95	0.000	0.0119	-0.0011	-0.0022	0.0134
	5.80	4.20	4.94	0.000	0.0156	-0.0034	-0.0044	0.0187
	6.00	4.00	4.91	0.000	0.0183	-0.0118	0.0011	0.0277
	6.20	3.80	4.88	0.000	0.0201	-0.0192	-0.0066	0.0361
	6.40	3.60	4.83	0.000	0.0360	-0.0276	-0.0011	0.0558
	6.60	3.40	4.77	0.000	0.0578	-0.0419	0.0029	0.0855
	6.80	3.20	4.69	0.000	0.0928	-0.0765	-0.0043	0.1424
	7.00	3.00	4.62	0.000	0.1527	-0.1189	-0.0022	0.2262
	7.20	2.80	4.56	0.000	0.2640	-0.2014	-0.0043	0.3851
	7.40	2.60	4.52	0.000	0.4166	-0.3210	0.0035	0.6078
	7.70	2.30	4.54	0.000	0.7429	-0.6119	-0.0008	1.1120
B	7.70	2.30	4.54	0.000	0.7472	-0.6133	-0.0020	0.0000
	7.50	2.50	4.54	0.200	0.7537	-0.6172	-0.0112	0.0086
	7.30	2.70	4.53	0.400	0.7548	-0.6147	-0.0091	0.0105
	7.10	2.90	4.52	0.600	0.7544	-0.6132	-0.0182	0.0121
	6.90	3.10	4.52	0.800	0.7569	-0.6079	-0.0239	0.0164
	6.70	3.30	4.52	1.000	0.7472	-0.6081	-0.0258	0.0254
	6.50	3.50	4.50	1.200	0.7483	-0.6041	-0.0169	0.0289
	6.30	3.70	4.49	1.400	0.7445	-0.6007	-0.0137	0.0348
	6.10	3.90	4.49	1.600	0.7543	-0.5899	-0.0006	0.0446
	5.90	4.10	4.48	1.800	0.7587	-0.5832	0.0218	0.0501
	5.70	4.30	4.47	2.000	0.7667	-0.5746	0.0570	0.0579
	5.50	4.50	4.46	2.200	0.7622	-0.5615	0.1299	0.0688
	5.30	4.70	4.43	2.400	0.7457	-0.5402	0.2450	0.0862
	5.10	4.90	4.39	2.600	0.7154	-0.5081	0.4154	0.1000
	4.90	5.10	4.34	2.800	0.6431	-0.4576	0.7012	0.1148
	4.70	5.30	4.30	3.000	0.4957	-0.3796	1.1069	0.2073
	4.50	5.50	4.23	3.200	0.2267	-0.2858	1.6651	0.4900
	4.30	5.70	4.18	3.400	-0.0908	-0.1387	2.4452	1.0700
7	4.30	5.70	4.18	3.400	-0.0961	-0.1388	2.4561	0.0000
	4.70	5.30	4.17	3.000	-0.0889	-0.1423	2.4690	0.0108
	5.10	4.90	4.17	2.600	-0.0789	-0.1449	2.4701	0.0145
	5.50	4.50	4.17	2.200	-0.0595	-0.1465	2.4488	0.0333
	5.90	4.10	4.19	1.800	-0.0093	-0.1517	2.4080	0.0710
	6.30	3.70	4.20	1.400	0.0942	-0.1720	2.3124	0.1504
	6.70	3.30	4.27	1.000	0.2881	-0.2256	2.0994	0.3015
	7.10	2.90	4.33	0.600	0.5663	-0.3571	1.7979	0.4352

FILE NAME		(CONTINUED)					:	AB7.1D	
B	7.50	2.50	4.46	0.200	0.9714	-0.6279	1.4226	0.5514	
	7.70	2.30	4.45	0.000	1.2521	-0.8751	1.1871	0.7932	
	7.70	2.30	4.45	0.000	1.2624	-0.8761	1.1925	0.0000	
A	7.40	2.60	4.45	0.000	1.2618	-0.8708	1.1852	0.0075	
	7.00	3.00	4.45	0.000	1.2585	-0.8639	1.1919	0.0124	
	6.60	3.40	4.44	0.000	1.2565	-0.8575	1.1886	0.0200	
	6.20	3.80	4.44	0.000	1.2553	-0.8458	1.1911	0.0295	
	5.80	4.20	4.43	0.000	1.2525	-0.8269	1.1822	0.0500	
	5.40	4.60	4.42	0.000	1.2460	-0.7971	1.1842	0.0771	
	5.00	5.00	4.41	0.000	1.2302	-0.7493	1.1704	0.1299	

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FILE NAME                               :      AB8.1D
NUMBER OF POINTS                       :      40
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      5.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0019	-0.0003	0.0009	0.0021
	5.40	4.60	4.97	0.000	0.0051	-0.0023	-0.0042	0.0071
	5.60	4.40	4.95	0.000	0.0081	-0.0027	-0.0002	0.0094
	5.80	4.20	4.93	0.000	0.0131	-0.0057	-0.0024	0.0161
	6.00	4.00	4.89	0.000	0.0192	-0.0111	-0.0048	0.0257
	6.20	3.80	4.85	0.000	0.0279	-0.0184	-0.0104	0.0394
	6.40	3.60	4.79	0.000	0.0452	-0.0276	-0.0091	0.0609
	6.60	3.40	4.73	0.000	0.0688	-0.0453	-0.0111	0.0947
	6.80	3.20	4.66	0.000	0.1208	-0.0777	-0.0098	0.1640
	7.00	3.00	4.60	0.000	0.1904	-0.1249	-0.0142	0.2601
	7.20	2.80	4.57	0.000	0.3431	-0.2378	-0.0158	0.4776
	7.40	2.60	4.56	0.000	0.5271	-0.3760	-0.0271	0.7417
	7.60	2.40	4.59	0.000	0.7676	-0.5838	-0.0365	1.1082
B	7.60	2.40	4.59	0.000	0.7690	-0.5892	-0.0365	0.0000
	7.10	2.90	4.58	0.200	0.7735	-0.5902	-0.0448	0.0050
	6.60	3.40	4.56	0.400	0.7759	-0.5824	-0.0508	0.0114
	6.10	3.90	4.55	0.600	0.7729	-0.5686	-0.0548	0.0259
	5.60	4.40	4.54	0.800	0.7657	-0.5476	-0.0596	0.0497
	5.10	4.90	4.52	1.000	0.7535	-0.5212	-0.0554	0.0820
	4.60	5.40	4.49	1.200	0.7212	-0.4553	-0.0267	0.1644
	4.10	5.90	4.47	1.400	0.6533	-0.3253	0.0746	0.3266
	3.60	6.40	4.42	1.600	0.5009	-0.1017	0.2990	0.5809
	3.10	6.90	4.55	1.800	0.1713	0.2951	0.7506	0.6594
	2.60	7.40	4.61	2.000	-0.6752	1.0595	1.6754	2.0080
B	2.60	7.40	4.60	2.000	-0.6883	1.0684	1.6799	0.0000
	3.10	6.90	4.60	1.800	-0.6906	1.0661	1.6733	0.0043
	3.60	6.40	4.59	1.600	-0.6813	1.0617	1.6736	0.0125
	4.60	5.40	4.57	1.200	-0.6416	1.0495	1.6536	0.0564
	5.60	4.40	4.57	0.800	-0.4997	1.0069	1.6039	0.1987
	6.60	3.40	4.41	0.400	-0.1039	0.7837	1.3798	0.6630
	7.60	2.40	4.64	0.000	0.7299	0.1426	0.8954	1.1370
B	7.60	2.40	4.63	0.000	0.7401	0.1367	0.8919	0.0000
	7.40	2.60	4.63	0.000	0.7373	0.1385	0.8931	0.0014
	7.00	3.00	4.63	0.000	0.7351	0.1421	0.8886	0.0072
	6.60	3.40	4.62	0.000	0.7329	0.1470	0.8931	0.0085
	6.20	3.80	4.61	0.000	0.7290	0.1581	0.8937	0.0157
	5.80	4.20	4.61	0.000	0.7272	0.1662	0.8947	0.0203
	5.40	4.60	4.61	0.000	0.7204	0.1797	0.8988	0.0263
A	5.00	5.00	4.60	0.000	0.7117	0.1966	0.8970	0.0394

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FILE NAME                               :          AB9.2D
NUMBER OF POINTS                       :          26
APPARATUS USED                         :          DIR SHR
TYPE OF TEST                           :          DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :          7*7*7
INITIAL CONFINMENT STRESS (PSI)        :          5.0
INITIAL RELATIVE DENSITY DR ( % )      :          72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.000	0.0004	-0.0012	-0.0005	0.0014
	5.40	4.60	4.97	0.000	0.0009	-0.0056	-0.0051	0.0071
	5.60	4.40	4.94	0.000	0.0038	-0.0066	-0.0042	0.0098
	5.80	4.20	4.92	0.000	0.0100	-0.0093	-0.0034	0.0167
	6.00	4.00	4.90	0.000	0.0149	-0.0122	-0.0006	0.0229
	6.20	3.80	4.86	0.000	0.0270	-0.0143	-0.0068	0.0359
	6.40	3.60	4.81	0.000	0.0402	-0.0254	-0.0061	0.0555
	6.60	3.40	4.75	0.000	0.0621	-0.0409	0.0000	0.0859
	6.80	3.20	4.66	0.000	0.1006	-0.0662	-0.0063	0.1385
	7.00	3.00	4.58	0.000	0.1665	-0.1109	0.0051	0.2293
	7.20	2.80	4.52	0.000	0.2763	-0.1888	0.0052	0.3832
	7.40	2.60	4.49	0.000	0.4334	-0.3126	0.0153	0.6133
	7.60	2.40	4.49	0.000	0.6335	-0.4793	0.0154	0.9132
	7.70	2.30	4.50	0.000	0.6489	-0.4984	0.0230	0.9414
B	7.70	2.30	4.50	0.000	0.6537	-0.5012	0.0199	0.0000
	7.40	2.60	4.50	0.000	0.6567	-0.4985	0.0133	0.0027
	7.20	2.80	4.50	0.000	0.6571	-0.4949	0.0174	0.0059
	7.00	3.00	4.49	0.000	0.6558	-0.4923	0.0243	0.0090
	6.80	3.20	4.49	0.000	0.6551	-0.4895	0.0204	0.0121
	6.60	3.40	4.48	0.000	0.6542	-0.4871	0.0189	0.0149
	6.40	3.60	4.48	0.000	0.6551	-0.4818	0.0195	0.0195
	6.20	3.80	4.48	0.000	0.6514	-0.4780	0.0224	0.0255
	6.00	4.00	4.48	0.000	0.6507	-0.4753	0.0157	0.0286
	5.80	4.20	4.47	0.000	0.6476	-0.4715	0.0219	0.0341
	5.60	4.40	4.47	0.000	0.6466	-0.4659	0.0230	0.0400

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FILE NAME                               : AB9.3D
NUMBER OF POINTS                       : 39
APPARATUS USED                         : DIR SHR
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	5.00	0.000	0.0009	-0.0018	0.0028	0.0032
	5.40	4.60	5.00	0.000	0.0050	-0.0010	-0.0024	0.0063
	5.60	4.40	4.99	0.000	0.0049	-0.0054	-0.0028	0.0104
	5.80	4.20	4.98	0.000	0.0096	-0.0080	0.0028	0.0163
	6.00	4.00	4.95	0.000	0.0162	-0.0134	0.0042	0.0262
	6.20	3.80	4.93	0.000	0.0189	-0.0203	-0.0017	0.0341
	6.40	3.60	4.88	0.000	0.0323	-0.0267	0.0002	0.0505
	6.60	3.40	4.83	0.000	0.0527	-0.0388	0.0017	0.0774
	6.80	3.20	4.75	0.000	0.0891	-0.0640	-0.0003	0.1279
	7.00	3.00	4.68	0.000	0.1353	-0.0993	0.0024	0.1948
	7.20	2.80	4.61	0.000	0.2446	-0.1802	0.0091	0.3507
	7.40	2.60	4.56	0.000	0.3760	-0.2872	0.0091	0.5456
	7.60	2.40	4.56	0.000	0.5788	-0.4595	0.0005	0.8521
	7.70	2.30	4.57	0.000	0.6061	-0.4839	0.0057	0.8943
	7.80	2.20	4.57	0.000	0.8703	-0.7255	-0.0080	1.3075
B	7.80	2.20	4.56	0.000	0.8713	-0.7260	-0.0039	0.0000
	7.40	2.60	4.56	0.000	0.8686	-0.7201	0.0017	0.0071
	7.00	3.00	4.56	0.000	0.8641	-0.7143	-0.0015	0.0156
	6.60	3.40	4.55	0.000	0.8623	-0.7085	-0.0037	0.0221
	6.20	3.80	4.54	0.000	0.8596	-0.7014	0.0011	0.0303
	5.80	4.20	4.54	0.000	0.8576	-0.6886	-0.0029	0.0435
	5.40	4.60	4.53	0.000	0.8531	-0.6743	0.0053	0.0595
	5.00	5.00	4.53	0.000	0.8461	-0.6490	0.0116	0.0872
	4.80	5.20	4.52	0.000	0.8391	-0.6258	0.0120	0.1131
	4.60	5.40	4.50	0.000	0.8271	-0.5986	0.0146	0.1458
	4.40	5.60	4.47	0.000	0.8098	-0.5640	0.0110	0.1889
	4.20	5.80	4.45	0.000	0.7856	-0.5265	0.0202	0.2397
	4.00	6.00	4.40	0.000	0.7535	-0.4663	0.0245	0.3161
	3.80	6.20	4.38	0.000	0.7185	-0.4090	0.0319	0.3921
	3.60	6.40	4.34	0.000	0.6694	-0.3246	0.0378	0.5022
	3.40	6.60	4.34	0.000	0.6144	-0.2351	0.0458	0.6208
	3.20	6.80	4.33	0.000	0.5423	-0.1250	0.0509	0.7701
	3.00	7.00	4.36	0.000	0.4653	-0.0217	0.0539	0.9169
	2.80	7.20	4.35	0.000	0.3395	0.1428	0.0601	1.1497
9	2.80	7.20	4.35	0.000	0.3371	0.1452	0.0591	0.0000
	3.00	7.00	4.35	0.000	0.3414	0.1458	0.0602	0.0040
	3.40	6.60	4.35	0.000	0.3442	0.1415	0.0570	0.0088
	3.80	6.20	4.36	0.000	0.3495	0.1412	0.0521	0.0130

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FILE NAME                               :      ABC1.1D
NUMBER OF POINTS                       :              34
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :              5.0
INITIAL RELATIVE DENSITY DR ( % )      :              72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0019	-0.0007	-0.0048	0.0045
	5.40	4.60	4.97	0.000	0.0064	-0.0017	-0.0057	0.0085
	5.60	4.40	4.95	0.000	0.0096	-0.0047	-0.0005	0.0121
	5.80	4.20	4.94	0.000	0.0147	-0.0061	-0.0068	0.0185
	6.00	4.00	4.92	0.000	0.0214	-0.0094	-0.0034	0.0261
	6.20	3.80	4.89	0.000	0.0285	-0.0151	0.0046	0.0367
	6.40	3.60	4.84	0.000	0.0419	-0.0259	-0.0042	0.0563
	6.60	3.40	4.77	0.000	0.0684	-0.0446	-0.0076	0.0936
	6.80	3.20	4.70	0.000	0.1219	-0.0805	-0.0002	0.1668
	7.00	3.00	4.62	0.000	0.2126	-0.1437	0.0015	0.2931
	7.20	2.80	4.58	0.000	0.3564	-0.2485	-0.0115	0.4970
	7.40	2.60	4.56	0.000	0.5667	-0.4145	-0.0231	0.8052
	7.60	2.40	4.59	0.000	0.7999	-0.6093	-0.0265	1.1551
B	7.60	2.40	4.59	0.000	0.8004	-0.6118	-0.0275	0.0000
	7.60	2.40	4.59	0.250	0.8140	-0.6243	-0.0319	0.0214
	7.60	2.40	4.47	0.500	0.8830	-0.6872	0.0103	0.1288
	7.60	2.40	4.43	0.750	1.0499	-0.8267	0.1252	0.3827
	7.60	2.40	4.44	1.000	1.1494	-0.9209	0.2022	0.5456
	7.60	2.40	4.48	1.250	1.3089	-1.0897	0.3718	0.8290
	7.60	2.40	4.51	1.500	1.5371	-1.3478	0.6534	1.2626
C	7.60	2.40	4.51	1.500	1.5464	-1.3571	0.6632	0.0000
	7.70	2.30	4.51	1.500	1.7225	-1.5595	0.8499	0.3366
	7.80	2.20	4.52	1.500	1.9042	-1.7688	1.0180	0.6808
	7.90	2.10	4.54	1.500	2.1192	-2.0188	1.1644	1.0789
1	7.90	2.10	4.55	1.500	2.1255	-2.0242	1.1785	0.0000
	7.80	2.20	4.54	1.500	2.1263	-2.0244	1.1664	0.0019
C	7.60	2.40	4.54	1.500	2.1274	-2.0213	1.1841	0.0050
	7.60	2.40	4.54	1.250	2.1273	-2.0176	1.1729	0.0107
	7.60	2.40	4.54	1.000	2.1284	-2.0191	1.1676	0.0110
	7.60	2.40	4.54	0.750	2.1281	-2.0175	1.1732	0.0116
	7.60	2.40	4.55	0.500	2.1297	-2.0137	1.1737	0.0146
	7.60	2.40	4.56	0.250	2.1361	-2.0094	1.1759	0.0201
B	7.60	2.40	4.58	0.000	2.1420	-2.0038	1.1543	0.0272

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FILE NAME                               :      ABC1.2D
NUMBER OF POINTS                       :      30
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      5.0
INITIAL RELATIVE DENSITY DR ( % )     :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0039	0.0023	0.0056	0.0056
	5.40	4.60	4.97	0.000	0.0044	-0.0010	0.0022	0.0069
	5.60	4.40	4.96	0.000	0.0089	-0.0040	0.0005	0.0127
	5.80	4.20	4.94	0.000	0.0108	-0.0043	-0.0001	0.0148
	6.00	4.00	4.91	0.000	0.0188	-0.0058	0.0000	0.0230
	6.20	3.80	4.87	0.000	0.0277	-0.0161	0.0043	0.0389
	6.40	3.60	4.82	0.000	0.0439	-0.0255	0.0105	0.0605
	6.60	3.40	4.72	0.000	0.0771	-0.0467	0.0078	0.1049
	6.80	3.20	4.63	0.000	0.1303	-0.0788	0.0121	0.1753
	7.00	3.00	4.56	0.000	0.2183	-0.1385	0.0234	0.2971
	7.20	2.80	4.49	0.000	0.3502	-0.2275	0.0372	0.4788
	7.40	2.60	4.43	0.000	0.5510	-0.3805	0.0435	0.7665
	7.60	2.40	4.43	0.000	0.7934	-0.5822	0.0543	1.1316
B	7.60	2.40	4.41	0.000	0.7972	-0.5845	0.0583	0.0000
	7.60	2.40	4.41	0.250	0.8002	-0.5911	0.0449	0.0076
	7.60	2.40	4.34	0.500	0.9454	-0.7242	0.1041	0.2369
	7.60	2.40	4.34	0.750	1.0983	-0.8619	0.2081	0.4807
	7.60	2.40	4.30	1.000	1.2747	-1.0315	0.3564	0.7765
	7.60	2.40	4.31	1.250	1.4842	-1.2449	0.5573	1.1455
C	7.60	2.40	4.31	1.250	1.4949	-1.2587	0.5525	0.0000
	7.80	2.20	4.33	1.250	1.8370	-1.6181	0.8242	0.6072
	8.00	2.00	4.37	1.250	2.3536	-2.2034	1.1561	1.5461
	8.20	1.80	4.35	1.250	3.0690	-3.0579	1.5526	2.8698
	8.40	1.60	4.38	1.250	3.7402	-3.9013	1.8683	4.1348
	8.60	1.40	4.48	1.250	4.2690	-4.5301	2.0524	5.0902
	8.80	1.20	4.54	1.250	4.7968	-5.1515	2.1904	6.0312
	9.00	1.00	4.65	1.250	5.3066	-5.7058	2.3335	6.9054
	9.20	0.80	4.75	1.250	5.7620	-6.1519	2.5116	7.6557
1*	9.40	0.60	4.84	1.250	6.1703	-6.4871	2.6996	8.2823

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FILE NAME                               :      ABC2.1D
NUMBER OF POINTS                       :           33
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :           5.0
INITIAL RELATIVE DENSITY DR ( % )      :           72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.0000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.0000	0.0030	-0.0017	-0.0019	0.0042
	5.40	4.60	4.96	0.0000	0.0063	-0.0027	0.0010	0.0076
	5.60	4.40	4.94	0.0000	0.0110	-0.0065	-0.0008	0.0145
	5.80	4.20	4.91	0.0000	0.0175	-0.0110	-0.0003	0.0236
	6.00	4.00	4.88	0.0000	0.0265	-0.0192	-0.0012	0.0377
	6.20	3.80	4.83	0.0000	0.0439	-0.0309	0.0043	0.0616
	6.40	3.60	4.76	0.0000	0.0666	-0.0509	-0.0033	0.0965
	6.60	3.40	4.69	0.0000	0.1031	-0.0759	0.0027	0.1469
	6.80	3.20	4.60	0.0000	0.1631	-0.1151	0.0029	0.2285
	7.00	3.00	4.53	0.0000	0.2319	-0.1666	0.0052	0.3271
	7.20	2.80	4.46	0.0000	0.3721	-0.2724	0.0071	0.5285
	7.40	2.60	4.42	0.0000	0.5494	-0.4176	0.0044	0.7923
	7.60	2.40	4.42	0.0000	0.7721	-0.6094	0.0081	1.1312
B	7.60	2.40	4.43	0.0000	0.7755	-0.6124	0.0102	0.0000
	7.60	2.40	4.42	0.250	0.7967	-0.6245	0.0069	0.0275
	7.60	2.40	4.40	0.500	0.8332	-0.6574	0.0322	0.0844
	7.60	2.40	4.38	0.750	0.9449	-0.7565	0.1206	0.2599
	7.60	2.40	4.39	1.000	1.0356	-0.8479	0.2067	0.4143
	7.60	2.40	4.42	1.250	1.2030	-1.0230	0.4002	0.7139
	7.60	2.40	4.47	1.500	1.3873	-1.2534	0.6502	1.0884
C	7.60	2.40	4.47	1.500	1.3931	-1.2647	0.6575	0.0000
	7.85	2.15	4.52	1.600	1.8163	-1.8101	1.1381	0.8697
2	7.85	2.15	4.52	1.600	1.8260	-1.8307	1.1485	0.0000
	7.60	2.40	4.51	1.500	1.8228	-1.8355	1.1474	0.0039
C	7.60	2.40	4.51	1.500	1.8267	-1.8330	1.1495	0.0000
	7.60	2.40	4.50	1.250	1.8339	-1.8286	1.1521	0.0062
	7.60	2.40	4.51	1.000	1.8385	-1.8291	1.1511	0.0104
	7.60	2.40	4.51	0.750	1.8434	-1.8250	1.1579	0.0152
	7.60	2.40	4.51	0.500	1.8482	-1.8231	1.1459	0.0184
	7.60	2.40	4.51	0.250	1.8517	-1.8196	1.1431	0.0219
	7.60	2.40	4.52	0.000	1.8611	-1.8179	1.1282	0.0275
B	7.60	2.40	4.52	0.000	1.8625	-1.8134	1.1337	0.0000

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FILE NAME                               :      ABC3.1D
NUMBER OF POINTS                       :           34
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :           5.0
INITIAL RELATIVE DENSITY DR ( % )     :           72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0016	-0.0006	-0.0053	0.0047
	5.40	4.60	4.98	0.000	0.0063	-0.0002	-0.0035	0.0075
	5.60	4.40	4.96	0.000	0.0060	-0.0031	-0.0040	0.0101
	5.80	4.20	4.95	0.000	0.0125	-0.0043	-0.0036	0.0166
	6.00	4.00	4.92	0.000	0.0142	-0.0095	-0.0031	0.0223
	6.20	3.80	4.89	0.000	0.0212	-0.0158	-0.0039	0.0331
	6.40	3.60	4.84	0.000	0.0346	-0.0228	0.0005	0.0499
	6.60	3.40	4.76	0.000	0.0587	-0.0399	0.0090	0.0840
	6.80	3.20	4.65	0.000	0.1063	-0.0719	0.0071	0.1493
	7.00	3.00	4.52	0.000	0.1930	-0.1371	0.0140	0.2737
	7.20	2.80	4.41	0.000	0.3565	-0.2615	0.0247	0.5097
	7.40	2.60	4.36	0.000	0.5440	-0.4100	0.0258	0.7846
	7.60	2.40	4.35	0.000	0.8085	-0.6337	0.0241	1.1835
B	7.60	2.40	4.35	0.000	0.8149	-0.6297	0.0212	0.0000
	7.60	2.40	4.35	0.250	0.8314	-0.6421	0.0209	0.0237
	7.60	2.40	4.31	0.500	0.9273	-0.7260	0.0952	0.1727
	7.60	2.40	4.30	0.750	1.0419	-0.8247	0.1808	0.3520
	7.60	2.40	4.31	1.000	1.1595	-0.9433	0.2974	0.5547
	7.60	2.40	4.33	1.250	1.3445	-1.1308	0.5185	0.8857
	7.60	2.40	4.34	1.400	1.4676	-1.2785	0.6814	1.1312
C	7.60	2.40	4.35	1.400	1.4725	-1.2904	0.6791	0.0000
	7.70	2.30	4.36	1.500	1.7149	-1.5780	0.9793	0.4825
	7.80	2.20	4.38	1.600	1.9605	-1.9129	1.2424	1.0005
3	7.80	2.20	4.38	1.600	1.9673	-1.9281	1.2420	0.0000
	7.70	2.30	4.39	1.500	1.9754	-1.9310	1.2449	0.0096
	7.60	2.40	4.39	1.400	1.9772	-1.9315	1.2493	0.0125
C	7.60	2.40	4.39	1.400	1.9772	-1.9306	1.2476	0.0000
	7.60	2.40	4.39	1.250	1.9760	-1.9298	1.2507	0.0008
	7.60	2.40	4.39	1.000	1.9747	-1.9302	1.2509	0.0018
	7.60	2.40	4.40	0.750	1.9753	-1.9273	1.2437	0.0058
	7.60	2.40	4.40	0.500	1.9841	-1.9279	1.2357	0.0124
	7.60	2.40	4.40	0.250	2.0006	-1.9284	1.2188	0.0242
B	7.60	2.40	4.38	0.000	2.0074	-1.9225	1.2051	0.0307

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FILE NAME                               :      ABC4.1D
NUMBER OF POINTS                       :           41
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :           5.0
INITIAL RELATIVE DENSITY DR ( % )     :           72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.000	0.0113	0.0093	-0.0092	0.0124
	5.40	4.60	4.97	0.000	0.0226	0.0114	-0.0149	0.0222
	5.60	4.40	4.95	0.000	0.0361	0.0163	-0.0166	0.0327
	5.80	4.20	4.93	0.000	0.0477	0.0173	-0.0234	0.0445
	6.00	4.00	4.89	0.000	0.0641	0.0172	-0.0317	0.0613
	6.20	3.80	4.84	0.000	0.0860	0.0122	-0.0346	0.0831
	6.40	3.60	4.76	0.000	0.1141	0.0018	-0.0420	0.1156
	6.60	3.40	4.67	0.000	0.1608	-0.0250	-0.0456	0.1746
	6.80	3.20	4.60	0.000	0.2300	-0.0640	-0.0512	0.2632
	7.00	3.00	4.52	0.000	0.3388	-0.1375	-0.0429	0.4110
	7.20	2.80	4.49	0.000	0.4979	-0.2416	-0.0544	0.6275
	7.40	2.60	4.48	0.000	0.7141	-0.4158	-0.0596	0.9466
B	7.40	2.60	4.48	0.000	0.7116	-0.4208	-0.0585	0.0000
	7.40	2.60	4.47	0.250	0.7149	-0.4250	-0.0568	0.0061
	7.40	2.60	4.44	0.500	0.7619	-0.4675	-0.0323	0.0784
	7.40	2.60	4.42	0.750	0.8996	-0.5555	0.0503	0.2645
	7.40	2.60	4.42	1.000	0.9993	-0.6395	0.1344	0.4184
	7.40	2.60	4.42	1.250	1.2124	-0.8262	0.3665	0.7673
	7.40	2.60	4.43	1.400	1.3065	-0.9245	0.4681	0.9374
	7.40	2.60	4.44	1.500	1.3598	-0.9847	0.5259	1.0380
C	7.40	2.60	4.44	1.500	1.3642	-0.9912	0.5289	0.0000
	7.50	2.50	4.45	1.750	1.7518	-1.4341	1.0625	0.7715
	7.55	2.45	4.46	1.875	1.9447	-1.6959	1.3056	1.1886
4	7.55	2.45	4.47	1.875	1.9534	-1.7147	1.3031	0.0000
	7.50	2.50	4.47	1.750	1.9613	-1.7183	1.3063	0.0099
	7.40	2.60	4.45	1.500	1.9490	-1.7240	1.3002	0.0208
C	7.40	2.60	4.46	1.500	1.9422	-1.7274	1.3056	0.0000
	7.40	2.60	4.45	1.250	1.9326	-1.7309	1.2973	0.0093
	7.40	2.60	4.44	1.000	1.9327	-1.7298	1.2945	0.0109
	7.40	2.60	4.45	0.750	1.9532	-1.7137	1.2890	0.0263
	7.40	2.60	4.46	0.500	1.9624	-1.7048	1.2727	0.0378
	7.40	2.60	4.48	0.250	1.9774	-1.6882	1.2459	0.0549
	7.40	2.60	4.50	0.000	1.9970	-1.6824	1.1994	0.0669
B	7.40	2.60	4.49	0.000	1.9980	-1.6790	1.1909	0.0000
	7.00	3.00	4.49	0.000	1.9874	-1.6726	1.1973	0.0117
	6.60	3.40	4.49	0.000	1.9843	-1.6560	1.1946	0.0289
	6.20	3.80	4.49	0.000	1.9794	-1.6290	1.1942	0.0559
	5.80	4.20	4.48	0.000	1.9652	-1.5896	1.1862	0.1011
	5.40	4.60	4.46	0.000	1.9386	-1.5409	1.1795	0.1620
A	5.00	5.00	4.44	0.000	1.8963	-1.4585	1.1633	0.2643

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FILE NAME                               :      ABC5.1D
NUMBER OF POINTS                       :      39
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      5.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0008	-0.0047	-0.0010	0.0049
	5.40	4.60	4.97	0.000	0.0039	-0.0053	-0.0047	0.0089
	5.60	4.40	4.96	0.000	0.0074	-0.0085	-0.0115	0.0166
	5.80	4.20	4.94	0.000	0.0122	-0.0101	-0.0022	0.0192
	6.00	4.00	4.91	0.000	0.0191	-0.0101	0.0004	0.0257
	6.20	3.80	4.88	0.000	0.0257	-0.0154	-0.0083	0.0362
	6.40	3.60	4.84	0.000	0.0356	-0.0228	-0.0026	0.0496
	6.60	3.40	4.77	0.000	0.0558	-0.0364	-0.0026	0.0775
	6.80	3.20	4.68	0.000	0.0926	-0.0601	-0.0052	0.1272
	7.00	3.00	4.59	0.000	0.1601	-0.1058	-0.0011	0.2202
	7.20	2.80	4.54	0.000	0.2812	-0.1916	0.0159	0.3901
	7.40	2.60	4.49	0.000	0.4504	-0.3195	0.0162	0.6334
	7.70	2.30	4.51	0.000	0.8069	-0.6175	0.0277	1.1686
B	7.70	2.30	4.51	0.000	0.8107	-0.6165	0.0357	0.0000
	7.70	2.30	4.51	0.250	0.8283	-0.6291	0.0294	0.0246
	7.70	2.30	4.51	0.500	0.9523	-0.7431	0.0923	0.2209
	7.70	2.30	4.51	0.750	1.0643	-0.8392	0.1700	0.3951
	7.70	2.30	4.53	1.000	1.1887	-0.9568	0.2777	0.6011
	7.70	2.30	4.55	1.250	1.3659	-1.1445	0.4670	0.9196
C	7.70	2.30	4.55	1.250	1.3724	-1.1488	0.4696	0.0000
	7.70	2.30	4.58	1.500	1.6053	-1.4317	0.7812	0.4671
	7.70	2.30	4.63	1.750	1.8090	-1.7589	1.0416	0.9450
S	7.70	2.30	4.64	1.750	1.8183	-1.7736	1.0560	0.0000
	7.70	2.30	4.63	1.500	1.8300	-1.7853	1.0749	0.0227
	7.70	2.30	4.63	1.250	1.8325	-1.7855	1.0739	0.0249
	7.70	2.30	4.63	1.000	1.8306	-1.7857	1.0780	0.0259
	7.70	2.30	4.62	0.750	1.8327	-1.7871	1.0765	0.0283
	7.70	2.30	4.61	0.500	1.8381	-1.7917	1.0690	0.0344
	7.70	2.30	4.61	0.250	1.8500	-1.7895	1.0746	0.0455
	7.70	2.30	4.61	0.000	1.8623	-1.7887	1.0582	0.0536
B	7.70	2.30	4.61	0.000	1.8673	-1.7848	1.0672	0.0000
	7.40	2.60	4.60	0.000	1.8635	-1.7800	1.0593	0.0086
	7.00	3.00	4.60	0.000	1.8579	-1.7667	1.0514	0.0256
	6.60	3.40	4.59	0.000	1.8535	-1.7444	1.0523	0.0479
	6.20	3.80	4.59	0.000	1.8487	-1.7189	1.0520	0.0737
	5.80	4.20	4.58	0.000	1.8405	-1.6770	1.0493	0.1166
	5.40	4.60	4.57	0.000	1.8299	-1.6289	1.0385	0.1681
A	5.00	5.00	4.54	0.000	1.8046	-1.5501	1.0310	0.2550

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FILE NAME                               :      ABC6.1D
NUMBER OF POINTS                       :      39
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      5.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.000	0.0019	-0.0007	-0.0041	0.0040
	5.40	4.60	4.97	0.000	0.0050	-0.0010	-0.0022	0.0059
	5.60	4.40	4.95	0.000	0.0091	-0.0036	-0.0100	0.0138
	5.80	4.20	4.93	0.000	0.0141	-0.0031	-0.0017	0.0165
	6.00	4.00	4.89	0.000	0.0216	-0.0110	-0.0033	0.0292
	6.20	3.80	4.84	0.000	0.0310	-0.0182	-0.0017	0.0428
	6.40	3.60	4.77	0.000	0.0566	-0.0325	0.0048	0.0758
	6.60	3.40	4.69	0.000	0.0978	-0.0524	-0.0009	0.1267
	6.80	3.20	4.59	0.000	0.1699	-0.0997	0.0077	0.2249
	7.00	3.00	4.50	0.000	0.2776	-0.1761	0.0082	0.3759
	7.20	2.80	4.45	0.000	0.4466	-0.2978	0.0081	0.6143
	7.40	2.60	4.42	0.000	0.6581	-0.4685	0.0008	0.9269
B	7.40	2.60	4.42	0.000	0.6600	-0.4695	0.0103	0.0000
	7.40	2.60	4.43	0.250	0.6740	-0.4758	0.0072	0.0170
	7.40	2.60	4.39	0.500	0.7123	-0.5075	0.0226	0.0744
	7.40	2.60	4.37	0.750	0.8152	-0.5876	0.1106	0.2276
	7.40	2.60	4.38	1.000	0.9211	-0.6779	0.1979	0.3943
	7.40	2.60	4.39	1.250	1.0826	-0.8258	0.3885	0.6690
	7.40	2.60	4.42	1.500	1.2576	-1.0136	0.6119	0.9995
C	7.40	2.60	4.42	1.500	1.2668	-1.0215	0.6170	0.0000
	7.30	2.70	4.43	1.750	1.3624	-1.1559	0.7676	0.2152
	7.20	2.80	4.43	2.000	1.4788	-1.3501	0.9938	0.5161
	7.06	2.94	4.43	2.350	1.6506	-1.7478	1.2976	1.0488
6	7.06	2.94	4.43	2.350	1.6554	-1.7685	1.2856	0.0000
	7.20	2.80	4.43	2.000	1.6718	-1.7889	1.2955	0.0310
	7.30	2.70	4.43	1.750	1.7219	-1.8362	1.3516	0.1216
	7.40	2.60	4.44	1.500	1.7291	-1.8357	1.3518	0.1279
C	7.40	2.60	4.45	1.500	1.7320	-1.8357	1.3475	0.0000
	7.40	2.60	4.45	1.000	1.7484	-1.8385	1.3322	0.0121
	7.40	2.60	4.49	0.500	1.7800	-1.7975	1.3023	0.0498
	7.40	2.60	4.56	0.000	1.8395	-1.7641	1.2424	0.0937
B	7.40	2.60	4.56	0.000	1.8395	-1.7646	1.2424	0.0000
	7.00	3.00	4.55	0.000	1.8320	-1.7516	1.2427	0.0160
	6.60	3.40	4.54	0.000	1.8284	-1.7343	1.2503	0.0314
	6.20	3.80	4.53	0.000	1.8237	-1.7156	1.2500	0.0507
	5.80	4.20	4.52	0.000	1.8195	-1.6808	1.2512	0.0837
	5.40	4.60	4.50	0.000	1.8099	-1.6366	1.2518	0.1280
A	5.00	5.00	4.46	0.000	1.7876	-1.5619	1.2440	0.2084

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FILE NAME                               :      ABC7.1D
NUMBER OF POINTS                       :      55
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      5.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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P ^m .	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.000	0.0020	0.0008	0.0021	0.0023
	5.40	4.60	4.97	0.000	0.0060	-0.0001	-0.0022	0.0060
	5.60	4.40	4.95	0.000	0.0087	-0.0003	0.0038	0.0089
	5.80	4.20	4.92	0.000	0.0117	-0.0054	0.0022	0.0150
	6.00	4.00	4.90	0.000	0.0148	-0.0113	-0.0016	0.0225
	6.20	3.80	4.84	0.000	0.0242	-0.0183	0.0062	0.0362
	6.40	3.60	4.78	0.000	0.0400	-0.0282	0.0001	0.0570
	6.60	3.40	4.67	0.000	0.0708	-0.0594	0.0073	0.1079
	6.80	3.20	4.55	0.000	0.1393	-0.1093	0.0097	0.2049
	7.00	3.00	4.46	0.000	0.2532	-0.1894	0.0123	0.3640
	7.20	2.80	4.40	0.000	0.4215	-0.3134	0.0056	0.6035
	7.40	2.60	4.36	0.000	0.6395	-0.4802	0.0054	0.9186
B	7.40	2.60	4.37	0.000	0.6453	-0.4792	0.0108	0.0000
	7.40	2.60	4.37	0.250	0.6615	-0.4824	0.0008	0.0169
	7.40	2.60	4.34	0.500	0.7362	-0.5370	0.0426	0.1235
	7.40	2.60	4.33	0.750	0.8528	-0.6260	0.1265	0.2958
	7.40	2.60	4.34	1.000	0.9347	-0.6986	0.1978	0.4272
	7.40	2.60	4.36	1.250	1.1046	-0.8522	0.3950	0.7140
	7.40	2.60	4.38	1.500	1.2803	-1.0409	0.6086	1.0434
C	7.40	2.60	4.39	1.500	1.2891	-1.0477	0.6086	0.0000
	7.20	2.80	4.38	1.700	1.4314	-1.2175	0.8229	0.2934
	7.00	3.00	4.37	1.900	1.4352	-1.2611	0.8433	0.3394
	6.80	3.20	4.35	2.100	1.4574	-1.3215	0.9024	0.4203
	6.60	3.40	4.34	2.300	1.4852	-1.4025	0.9912	0.5304
	6.40	3.60	4.30	2.500	1.5195	-1.4662	1.0851	0.6324
	6.20	3.80	4.26	2.700	1.5637	-1.5178	1.2147	0.7430
	6.00	4.00	4.17	2.900	1.6102	-1.6029	1.5146	0.9398
7	6.00	4.00	4.18	2.900	1.6122	-1.6084	1.5190	0.0000
	6.20	3.80	4.18	2.700	1.6178	-1.6169	1.5149	0.0091
	6.40	3.60	4.18	2.300	1.6239	-1.6174	1.5174	0.0154
	6.60	3.40	4.19	2.300	1.6312	-1.6246	1.5062	0.0223
	6.80	3.20	4.19	2.100	1.6353	-1.6266	1.5091	0.0279
	7.00	3.00	4.20	1.900	1.6477	-1.6346	1.5024	0.0409
	7.20	2.80	4.22	1.700	1.6664	-1.6450	1.4899	0.0588
	7.40	2.60	4.26	1.500	1.6997	-1.6711	1.4632	0.0945
C	7.40	2.60	4.26	1.500	1.6958	-1.6730	1.4621	0.0000
	7.40	1.60	4.27	1.250	1.7045	-1.6836	1.4370	0.0065
	7.40	2.60	4.26	1.250	1.7002	-1.6871	1.4305	0.0110
	7.40	2.60	4.27	1.000	1.7338	-1.6937	1.3839	0.0313

FILE NAME (CONTINUED)								ABC7.1D
B	7.40	2.60	4.31	0.750	1.7728	-1.7015	1.3183	0.0531
	7.40	2.60	4.36	0.500	1.8278	-1.7009	1.2522	0.0880
	7.40	2.60	4.39	0.250	1.8953	-1.7125	1.1925	0.1404
	7.40	2.60	4.40	0.000	1.9535	-1.7226	1.1515	0.1889
	7.40	2.60	4.40	0.000	1.9628	-1.7187	1.1504	0.0000
A	7.00	3.00	4.40	0.000	1.9621	-1.7101	1.1566	0.0068
	6.60	3.40	4.39	0.000	1.9641	-1.6989	1.1569	0.0163
	6.20	3.80	4.38	0.000	1.9630	-1.6808	1.1679	0.0309
	5.80	4.20	4.37	0.000	1.9574	-1.6553	1.1814	0.0537
	5.40	4.60	4.35	0.000	1.9382	-1.6216	1.1823	0.0950
	5.00	5.00	4.31	0.000	1.9130	-1.5529	1.1736	0.1727
	4.60	5.40	4.27	0.000	1.8739	-1.4571	1.1527	0.2857
	4.20	5.80	4.17	0.000	1.8023	-1.3053	1.1113	0.4728
	3.80	6.20	4.15	0.000	1.7122	-1.0910	1.0467	0.7311
	3.40	6.60	4.08	0.000	1.5363	-0.7778	0.9524	1.1362

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FILE NAME                               :      ABC8.1D
NUMBER OF POINTS                        :           51
APPARATUS USED                          :      DIR SHR
TYPE OF TEST                            :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)   :      7*7*7
INITIAL CONFINMENT STRESS                (PSI) :           5.0
INITIAL RELATIVE DENSITY      DR ( % )   :           72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.000	-0.0011	-0.0017	0.0041	0.0037
	5.40	4.60	4.96	0.000	0.0010	-0.0053	0.0008	0.0055
	5.60	4.40	4.94	0.000	0.0041	-0.0051	-0.0005	0.0083
	5.80	4.20	4.91	0.000	0.0101	-0.0093	-0.0019	0.0168
	6.00	4.00	4.88	0.000	0.0161	-0.0110	-0.0034	0.0235
	6.20	3.80	4.82	0.000	0.0265	-0.0209	-0.0059	0.0402
	6.40	3.60	4.75	0.000	0.0476	-0.0318	-0.0049	0.0666
	6.60	3.40	4.66	0.000	0.0902	-0.0585	-0.0057	0.1237
	6.80	3.20	4.58	0.000	0.1626	-0.1024	-0.0075	0.2195
	7.00	3.00	4.52	0.000	0.2700	-0.1815	-0.0074	0.3724
	7.20	2.80	4.50	0.000	0.4292	-0.3010	-0.0125	0.6008
	7.40	2.60	4.51	0.000	0.6241	-0.4546	-0.0147	0.8860
B	7.40	2.60	4.51	0.000	0.6285	-0.4576	-0.0189	0.0000
	7.40	2.60	4.51	0.250	0.6321	-0.4614	-0.0175	0.0060
	7.40	2.60	4.51	0.500	0.6626	-0.4760	-0.0082	0.0435
	7.40	2.60	4.51	0.750	0.7380	-0.5365	0.0446	0.1553
	7.40	2.60	4.54	1.000	0.8294	-0.6135	0.1349	0.2975
	7.40	2.60	4.56	1.250	0.9535	-0.7264	0.2685	0.5033
	7.40	2.60	4.60	1.500	1.0867	-0.8717	0.4316	0.7518
	7.40	2.60	4.63	1.700	1.2444	-1.0585	0.6307	1.0642
C	7.40	2.60	4.63	1.700	1.2493	-1.0659	0.6326	0.0000
	7.00	3.00	4.62	1.860	1.3449	-1.1821	0.7781	0.1995
	6.60	3.40	4.60	2.020	1.3460	-1.1799	0.7796	0.2011
	6.20	3.80	4.57	2.180	1.3454	-1.1765	0.7878	0.2029
	5.80	4.20	4.51	2.340	1.3424	-1.1589	0.8121	0.2150
	5.40	4.60	4.45	2.500	1.3174	-1.1064	0.8994	0.2536
	5.00	5.00	4.33	2.660	1.2518	-1.0082	1.1179	0.3080
	4.60	5.40	4.30	2.820	1.1002	-0.8342	1.4933	0.3723
	4.20	5.80	4.20	2.980	0.8066	-0.5901	2.0674	0.4201
	3.80	6.20	4.21	3.140	0.2541	-0.2385	2.8280	0.7411
	3.40	6.60	4.15	3.300	-0.3155	0.2291	3.8149	1.5452
8	3.40	6.60	4.13	3.300	-0.3368	0.2455	3.8443	0.0000
	3.80	6.20	4.13	3.140	-0.3332	0.2504	3.8690	0.0205
	4.20	5.80	4.12	2.980	-0.3262	0.2449	3.8657	0.0247
	4.60	5.40	4.11	2.820	-0.3165	0.2381	3.8610	0.0306
	5.00	5.00	4.11	2.660	-0.3034	0.2343	3.8580	0.0368
	5.40	4.60	4.11	2.500	-0.2805	0.2212	3.8440	0.0528
	5.80	4.20	4.10	2.340	-0.2275	0.1957	3.8093	0.0909
	6.20	3.80	4.09	2.180	-0.1273	0.1478	3.7708	0.1399

FILE NAME	(CONTINUED)	:	ABC8.1D
	6.60 3.40 4.13 2.020 0.0585 0.0485 3.7007 0.2169		
	7.00 3.00 4.15 1.860 0.3065 -0.1250 3.6017 0.2863		
	7.40 2.60 4.29 1.700 0.6542 -0.3808 3.4634 0.3309		
C	7.40 2.60 4.29 1.700 0.6585 -0.3847 3.4633 0.0000		
	7.40 2.60 4.30 1.500 0.6906 -0.4066 3.4414 0.0063		
	7.40 2.60 4.33 1.250 0.8008 -0.4837 3.3264 0.0472		
	7.40 2.60 4.36 1.000 0.9149 -0.5532 3.2128 0.0816		
	7.40 2.60 4.41 0.750 1.0815 -0.6462 3.0408 0.1266		
	7.40 2.60 4.47 0.500 1.2519 -0.7444 2.8603 0.1615		
	7.40 2.60 4.50 0.250 1.4620 -0.8703 2.6422 0.2110		
B	7.40 2.60 4.49 0.000 1.5746 -0.9536 2.5335 0.2579		

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FILE NAME                               :      ABC8.2D
NUMBER OF POINTS                       :           52
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :           5.0
INITIAL RELATIVE DENSITY DR ( % )      :           72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.000	0.0008	-0.0007	0.0055	0.0047
	5.40	4.60	4.97	0.000	0.0069	0.0005	0.0036	-0.0063
	5.60	4.40	4.94	0.000	0.0110	0.0032	0.0021	0.0116
	5.80	4.20	4.91	0.000	0.0170	0.0016	0.0058	0.0187
	6.00	4.00	4.89	0.000	0.0250	-0.0030	0.0045	0.0286
	6.20	3.80	4.84	0.000	0.0345	-0.0085	0.0068	0.0412
	6.40	3.60	4.78	0.000	0.0559	-0.0199	0.0056	0.0680
	6.60	3.40	4.69	0.000	0.0829	-0.0387	0.0042	0.1055
	6.80	3.20	4.58	0.000	0.1521	-0.0838	0.0060	0.1995
	7.00	3.00	4.50	0.000	0.2554	-0.1574	0.0110	0.3447
	7.20	2.80	4.44	0.000	0.4145	-0.2734	0.0206	0.5704
	7.40	2.60	4.43	0.000	0.6386	-0.4511	0.0283	0.8992
B	7.40	2.60	4.43	0.000	0.6396	-0.4515	0.0259	0.0000
	7.40	2.60	4.43	0.250	0.6512	-0.4578	0.0330	0.0150
	7.40	2.60	4.41	0.500	0.6893	-0.4849	0.0577	0.0693
	7.40	2.60	4.38	0.750	0.8075	-0.5884	0.1460	0.2554
	7.40	2.60	4.38	1.000	0.8983	-0.6743	0.2383	0.4081
	7.40	2.60	4.39	1.250	1.0468	-0.8206	0.4045	0.6696
	7.40	2.60	4.41	1.500	1.2384	-1.0409	0.6602	1.0473
C	7.40	2.60	4.41	1.500	1.2374	-1.0532	0.6611	0.0000
	6.90	3.10	4.39	1.700	1.3520	-1.2050	0.8653	0.2581
	6.40	3.60	4.38	1.900	1.3495	-1.2009	0.8677	0.2626
	5.90	4.10	4.34	2.100	1.3491	-1.1808	0.8911	0.2759
	5.40	4.60	4.32	2.300	1.3332	-1.1118	0.9765	0.3235
	4.90	5.10	4.22	2.500	1.2419	-0.9700	1.2435	0.4049
	4.40	5.60	4.23	2.700	1.0108	-0.7061	1.7234	0.4918
	3.90	6.10	4.14	2.900	0.4155	-0.3084	2.6273	0.7483
	3.40	6.60	4.21	3.100	-0.2069	0.2363	3.7067	1.5720
8	3.40	6.60	4.20	3.100	-0.2195	0.2518	3.7351	0.0000
	3.90	6.10	4.20	2.900	-0.2114	0.2509	3.7416	0.0056
	4.40	5.60	4.20	2.700	-0.2036	0.2430	3.7408	0.0077
	4.90	5.10	4.20	2.500	-0.1889	0.2357	3.7340	0.0161
	5.40	4.60	4.20	2.300	-0.1610	0.2222	3.7159	0.0357
	5.90	4.10	4.21	2.100	-0.0818	0.1861	3.6743	0.0824
	6.40	3.60	4.19	1.900	0.0762	0.0927	3.6075	0.1519
	6.90	3.10	4.26	1.700	0.3533	-0.0820	3.4950	0.2368
	7.40	2.60	4.32	1.500	0.7553	-0.4030	3.3391	0.2763
C	7.40	2.60	4.32	1.500	0.7646	-0.4055	3.3306	0.0000
	7.40	2.60	4.36	1.250	0.8307	-0.4509	3.2782	0.0129

FILE NAME		(CONTINUED)						:	ABC8.2D
		7.40	2.60	4.42	1.000	0.9651	-0.5441	3.1533	0.0405
		7.40	2.60	4.46	0.750	1.0701	-0.6150	3.0309	0.0685
		7.40	2.60	4.52	0.500	1.2669	-0.7438	2.8187	0.1008
		7.40	2.60	4.52	0.250	1.4071	-0.8337	2.6954	0.1430
		7.40	2.60	4.53	0.000	1.5310	-0.9121	2.5768	0.1860
B		7.40	2.60	4.54	0.000	1.5393	-0.9151	2.5767	0.0000
		7.00	3.00	4.53	0.000	1.5392	-0.9070	2.5794	0.0048
		6.60	3.40	4.52	0.000	1.5349	-0.8991	2.5794	0.0119
		6.20	3.80	4.50	0.000	1.5319	-0.8861	2.5757	0.0240
		5.80	4.20	4.49	0.000	1.5323	-0.8591	2.5837	0.0403
		5.40	4.60	4.47	0.000	1.5257	-0.8158	2.5784	0.0756
A		5.00	5.00	4.44	0.000	1.5065	-0.7377	2.5547	0.1484

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FILE NAME                               :      ABC9.1D
NUMBER OF POINTS                       :      60
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      5.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	-0.0017	-0.0052	-0.0024	0.0047
	5.40	4.60	4.97	0.000	-0.0009	-0.0091	-0.0029	0.0087
	5.60	4.40	4.95	0.000	0.0000	-0.0139	0.0009	0.0133
	5.80	4.20	4.93	0.000	0.0027	-0.0155	-0.0048	0.0173
	6.00	4.00	4.90	0.000	0.0088	-0.0200	-0.0023	0.0256
	6.20	3.80	4.86	0.000	0.0267	-0.0198	0.0046	0.0425
	6.40	3.60	4.80	0.000	0.0460	-0.0288	0.0036	0.0660
	6.60	3.40	4.70	0.000	0.0819	-0.0531	0.0001	0.1153
	6.80	3.20	4.58	0.000	0.1520	-0.1011	-0.0051	0.2124
	7.00	3.00	4.47	0.000	0.2759	-0.1863	-0.0033	0.3841
	7.20	2.80	4.40	0.000	0.4550	-0.3164	-0.0069	0.6376
	7.40	2.60	4.35	0.000	0.6771	-0.4919	-0.0055	0.9630
	7.50	2.50	4.36	0.000	0.6971	-0.5039	-0.0072	0.9893
B	7.50	2.50	4.36	0.000	0.7014	-0.5058	-0.0022	0.0000
	7.50	2.50	4.32	0.250	0.9168	-0.6908	0.0229	0.3273
	7.50	2.50	4.32	0.500	0.9209	-0.6975	0.0202	0.3362
	7.50	2.50	4.30	0.750	0.9861	-0.7527	0.0818	0.4361
	7.50	2.50	4.29	1.000	1.1256	-0.8766	0.2224	0.6597
	7.50	2.50	4.30	1.250	1.2853	-1.0260	0.4080	0.9313
	7.50	2.50	4.31	1.400	1.4252	-1.1677	0.6030	1.1885
C	7.50	2.50	4.30	1.400	1.4237	-1.1725	0.6062	0.0000
	7.20	2.80	4.30	1.400	1.4250	-1.1692	0.6027	0.0031
	7.00	3.00	4.30	1.400	1.4231	-1.1643	0.6057	0.0082
	6.80	3.20	4.30	1.400	1.4218	-1.1608	0.6074	0.0118
	6.60	3.40	4.29	1.400	1.4191	-1.1551	0.6113	0.0179
	6.40	3.60	4.29	1.400	1.4213	-1.1495	0.6132	0.0223
	6.20	3.80	4.28	1.400	1.4202	-1.1433	0.6150	0.0283
	6.00	4.00	4.28	1.400	1.4186	-1.1381	0.6169	0.0336
	5.80	4.20	4.27	1.400	1.4175	-1.1285	0.6210	0.0422
	5.60	4.40	4.27	1.400	1.4130	-1.1204	0.6223	0.0521
	5.40	4.60	4.26	1.400	1.4079	-1.1088	0.6344	0.0634
	5.20	4.80	4.25	1.400	1.4029	-1.0838	0.6440	0.0871
	5.00	5.00	4.23	1.400	1.3920	-1.0549	0.6567	0.1172
	4.80	5.20	4.20	1.400	1.3772	-1.0151	0.6783	0.1572
	4.60	5.40	4.16	1.400	1.3444	-0.9495	0.7202	0.2262
	4.40	5.60	4.13	1.400	1.3081	-0.8687	0.7583	0.3098
	4.20	5.80	4.11	1.400	1.2768	-0.8047	0.7929	0.3751
	4.00	6.00	4.09	1.400	1.2010	-0.6639	0.8742	0.5154
	3.80	6.20	4.07	1.400	1.1369	-0.5573	0.9414	0.6166

FILE NAME	(CONTINUED)						:	ABC9.1D

	3.60	6.40	4.08	1.400	1.0483	-0.4088	1.0241	0.7480
	3.40	6.60	4.07	1.400	0.9484	-0.2664	1.1146	0.8580
	3.20	6.80	4.10	1.400	0.8066	-0.0631	1.2335	0.9754
	3.00	7.00	4.11	1.400	0.6372	0.1591	1.3763	1.0248
	2.80	7.20	4.15	1.400	0.4188	0.4307	1.5249	1.0857
9	2.80	7.20	4.15	1.400	0.4145	0.4341	1.5314	0.0000

	3.20	6.80	4.15	1.400	0.4215	0.4342	1.5335	0.0037
	3.60	6.40	4.15	1.400	0.4236	0.4308	1.5237	0.0117
	4.00	6.00	4.15	1.400	0.4278	0.4259	1.5191	0.0155
	4.40	5.60	4.14	1.400	0.4323	0.4223	1.5248	0.0202
	4.80	5.20	4.14	1.400	0.4413	0.4183	1.5199	0.0248
	5.00	5.00	4.13	1.400	0.4483	0.4142	1.5195	0.0261
	5.40	4.60	4.12	1.400	0.4721	0.4025	1.5208	0.0322
	5.80	4.20	4.08	1.400	0.5178	0.3730	1.5265	0.0440
	6.20	3.80	4.06	1.400	0.5972	0.3163	1.5398	0.0721
	6.60	3.40	3.99	1.400	0.7279	0.2118	1.5851	0.1561
	7.00	3.00	4.03	1.400	0.9542	0.0213	1.6558	0.3475
	7.30	2.70	4.07	1.400	1.1636	-0.1812	1.7376	0.5898
	7.50	2.50	4.13	1.400	1.3654	-0.3920	1.8069	0.8539
C	7.50	2.50	4.13	1.400	1.3692	-0.3940	1.8048	0.0000

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FILE NAME                               :      ABC9.2D
NUMBER OF POINTS                       :              60
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :              5.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0071	0.0033	-0.0033	0.0064
	5.40	4.60	4.97	0.000	0.0115	0.0049	0.0022	0.0097
	5.60	4.40	4.96	0.000	0.0187	0.0048	0.0006	0.0162
	5.80	4.20	4.92	0.000	0.0272	0.0033	-0.0001	0.0251
	6.00	4.00	4.88	0.000	0.038	-0.0030	-0.0041	0.0400
	6.20	3.80	4.79	0.000	0.054	-0.0148	0.0023	0.0625
	6.40	3.60	4.70	0.000	0.0802	-0.0330	0.0010	0.0984
	6.60	3.40	4.59	0.000	0.1199	-0.0596	-0.0029	0.1529
	6.80	3.20	4.47	0.000	0.1758	-0.1044	-0.0007	0.2353
	7.00	3.00	4.34	0.000	0.2902	-0.1896	-0.0094	0.3989
	7.20	2.80	4.26	0.000	0.4296	-0.3094	-0.0153	0.6108
	7.40	2.60	4.21	0.000	0.6301	-0.4870	-0.0138	0.9196
B	7.40	2.60	4.21	0.000	0.6281	-0.4909	-0.0203	0.0000
	7.40	2.60	4.21	0.250	0.6442	-0.5060	-0.0269	0.0256
	7.40	2.60	4.18	0.500	0.6814	-0.5402	0.0071	0.0836
	7.40	2.60	4.18	0.750	0.7701	-0.5985	0.0560	0.1981
	7.40	2.60	4.19	1.000	0.8971	-0.6925	0.1810	0.3943
	7.40	2.60	4.22	1.250	1.0382	-0.8220	0.3524	0.6340
	7.40	2.60	4.26	1.500	1.2113	-1.0218	0.5852	0.9733
C	7.40	2.60	4.26	1.500	1.2171	-1.0292	0.5915	0.0000
	7.20	2.80	4.26	1.500	1.2183	-1.0259	0.5957	0.0023
	7.00	3.00	4.26	1.500	1.2070	-1.0288	0.5954	0.0117
	6.80	3.20	4.25	1.500	1.1988	-1.0333	0.5953	0.0184
	6.60	3.40	4.24	1.500	1.1965	-1.0261	0.5941	0.0265
	6.40	3.60	4.23	1.500	1.1895	-1.0259	0.5939	0.0330
	6.20	3.80	4.22	1.500	1.1892	-1.0216	0.5958	0.0368
	6.00	4.00	4.22	1.500	1.1955	-1.0095	0.5939	0.0468
	5.80	4.20	4.22	1.500	1.1992	-0.9990	0.5977	0.0549
	5.60	4.40	4.21	1.500	1.2029	-0.9859	0.6028	0.0650
	5.40	4.60	4.21	1.500	1.2013	-0.9724	0.6067	0.0774
	5.20	4.80	4.20	1.500	1.1927	-0.9525	0.6217	0.0972
	5.00	5.00	4.19	1.500	1.1853	-0.9280	0.6312	0.1213
	4.80	5.20	4.17	1.500	1.1650	-0.8938	0.6539	0.1590
	4.60	5.40	4.15	1.500	1.1438	-0.8467	0.6790	0.2070
	4.40	5.60	4.12	1.500	1.1080	-0.7769	0.7237	0.2776
	4.20	5.80	4.11	1.500	1.0746	-0.7141	0.7597	0.3409
	4.00	6.00	4.08	1.500	1.0124	-0.6111	0.8314	0.4402
	3.80	6.20	4.08	1.500	0.9471	-0.5099	0.8968	0.5341
	3.60	6.40	4.08	1.500	0.8693	-0.3898	0.9719	0.6344

FILE NAME (CONTINUED)								:	ABC9.2D
	3.40	6.60	4.10	1.500	0.7754	-0.2546	1.0550	0.7312	
	3.20	6.80	4.11	1.500	0.6562	-0.1006	1.1620	0.8047	
	3.00	7.00	4.13	1.500	0.4874	0.1078	1.2911	0.8430	
9	3.00	7.00	4.13	1.500	0.4812	0.1111	1.3008	0.0000	
	3.40	6.60	4.13	1.500	0.4852	0.1079	1.2956	0.0025	
	3.80	6.20	4.13	1.500	0.4906	0.1032	1.2964	0.0054	
	4.20	5.80	4.12	1.500	0.4967	0.1022	1.2920	0.0084	
	4.60	5.40	4.12	1.500	0.5027	0.0972	1.2956	0.0139	
	5.00	5.00	4.12	1.500	0.5108	0.0926	1.2909	0.0156	
	5.40	4.60	4.12	1.500	0.5259	0.0835	1.2880	0.0205	
	5.80	4.20	4.10	1.500	0.5575	0.0627	1.2908	0.0381	
	6.20	3.80	4.09	1.500	0.6150	0.0200	1.3033	0.0797	
	6.60	3.40	4.05	1.500	0.7037	-0.0599	1.3350	0.1658	
	7.00	3.00	4.09	1.500	0.8714	-0.2100	1.4160	0.3650	
	7.40	2.60	4.13	1.500	1.1324	-0.4839	1.5482	0.7377	
C	7.40	2.60	4.14	1.500	1.1387	-0.4873	1.5480	0.0000	
	7.40	2.60	4.15	1.250	1.1453	-0.4910	1.5475	0.0060	
	7.40	2.60	4.15	1.000	1.1561	-0.4987	1.5426	0.0144	
	7.40	2.60	4.17	0.750	1.1810	-0.5148	1.5168	0.0257	
B	7.40	2.60	4.18	0.500	1.2066	-0.5357	1.4957	0.0430	

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FILE NAME                               :      ABC9.3D
NUMBER OF POINTS                       :      44
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :      5.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0012	-0.0026	-0.0065	0.0062
	5.40	4.60	4.97	0.000	0.0046	-0.0030	-0.0014	0.0077
	5.60	4.40	4.96	0.000	0.0097	-0.0011	-0.0018	0.0118
	5.80	4.20	4.93	0.000	0.0122	-0.0049	0.0019	0.0169
	6.00	4.00	4.91	0.000	0.0162	-0.0072	-0.0008	0.0221
	6.20	3.80	4.88	0.000	0.0245	-0.0111	0.0026	0.0324
	6.40	3.60	4.84	0.000	0.0388	-0.0198	0.0080	0.0517
	6.60	3.40	4.78	0.000	0.0638	-0.0331	0.0016	0.0830
	6.80	3.20	4.74	0.000	0.1005	-0.0557	0.0030	0.1319
	7.00	3.00	4.69	0.000	0.1636	-0.0992	0.0050	0.2194
	7.20	2.80	4.65	0.000	0.2565	-0.1683	0.0055	0.3522
	7.40	2.60	4.63	0.000	0.4060	-0.2854	0.0062	0.5704
	7.60	2.40	4.65	0.000	0.6143	-0.4598	-0.0014	0.8832
B	7.60	2.40	4.64	0.000	0.6162	-0.4622	-0.0017	0.0000
	7.60	2.40	4.68	0.250	0.6347	-0.4741	-0.0028	0.0249
	7.60	2.40	4.67	0.500	0.7674	-0.5985	0.0655	0.2362
	7.60	2.40	4.65	0.750	0.8845	-0.7067	0.1445	0.4243
	7.60	2.40	4.49	1.000	1.0240	-0.8511	0.2656	0.6660
	7.60	2.40	4.31	1.250	1.2125	-1.0625	0.4645	1.0157
C	7.60	2.40	4.32	1.250	1.2228	-1.0707	0.4760	0.0000
	7.30	2.70	4.32	1.250	1.2206	-1.0660	0.4715	0.0064
	7.00	3.00	4.30	1.250	1.2218	-1.0622	0.4730	0.0094
	6.70	3.30	4.30	1.250	1.2192	-1.0562	0.4779	0.0156
	6.40	3.60	4.30	1.250	1.2168	-1.0491	0.4787	0.0234
	6.10	3.90	4.29	1.250	1.2154	-1.0417	0.4730	0.0319
	5.80	4.20	4.28	1.250	1.2144	-1.0278	0.4716	0.0455
	5.50	4.50	4.27	1.250	1.2072	-1.0115	0.4770	0.0638
	5.20	4.80	4.28	1.250	1.1965	-0.9868	0.4818	0.0920
	4.90	5.10	4.23	1.250	1.1804	-0.9404	0.4851	0.1432
	4.60	5.40	4.19	1.250	1.1502	-0.8767	0.5038	0.2160
	4.30	5.70	4.14	1.250	1.1073	-0.7896	0.5367	0.3140
	4.00	6.00	4.12	1.250	1.0448	-0.6719	0.5925	0.4434
	3.70	6.30	4.07	1.250	0.9599	-0.5284	0.6576	0.6001
	3.40	6.60	4.07	1.250	0.8471	-0.3502	0.7392	0.7824
	3.10	6.90	4.05	1.250	0.6705	-0.1134	0.8749	0.9743
	2.80	7.20	4.07	1.250	0.4207	0.1815	1.0509	1.0562
	2.50	7.50	4.07	1.250	0.0350	0.5983	1.3163	1.3456
	2.20	7.80	4.13	1.250	-0.5808	1.1912	1.7024	2.1830
	1.90	8.10	4.15	1.250	-1.5575	2.0226	2.2110	3.6139

FILE NAME	(CONTINUED)	:	ABC9.3D
1.60	8.40	4.24	1.250 -2.9527 3.0997 2.7690 5.6183
1.30	8.70	4.32	1.250 -4.7075 4.3570 3.3595 8.0881
1.00	9.00	4.43	1.250 -5.8265 5.1906 3.7702 9.7082
9*	0.70	9.30	4.57 1.250 -6.4708 5.8001 3.9974 10.7381

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FILE NAME                               :      ABC10.1D
NUMBER OF POINTS                        :              45
APPARATUS USED                          :      DIR SHR
TYPE OF TEST                            :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)   :      7*7*7
INITIAL CONFINMENT STRESS (PSI)         :              5.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. A PSI	SIG. E PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.000	0.0027	-0.0001	-0.0039	0.0041
	5.40	4.60	4.95	0.000	0.0087	-0.0040	-0.0072	0.0121
	5.60	4.40	4.88	0.000	0.0181	-0.0120	-0.0076	0.0256
	5.80	4.20	4.78	0.000	0.0411	-0.0284	-0.0056	0.0573
	6.00	4.00	4.62	0.000	0.0901	-0.0662	-0.0087	0.1284
	6.20	3.80	4.49	0.000	0.1512	-0.1125	-0.0067	0.2163
	6.40	3.60	4.35	0.000	0.2627	-0.1984	-0.0162	0.3781
	6.60	3.40	4.26	0.000	0.3869	-0.2856	-0.0206	0.5516
	6.80	3.20	4.21	0.000	0.5481	-0.4129	-0.0265	0.7877
	7.00	3.00	4.19	0.000	0.7373	-0.5578	-0.0378	1.0615
B	7.00	3.00	4.20	0.000	0.7406	-0.5583	-0.0325	0.0000
	7.00	3.00	4.18	0.250	0.7589	-0.5747	-0.0437	0.0286
	7.00	3.00	4.18	0.500	0.7744	-0.5877	-0.0404	0.0518
	7.00	3.00	4.17	0.750	0.8156	-0.6182	-0.0133	0.1102
	7.00	3.00	4.17	1.000	0.8915	-0.6767	0.0721	0.2214
	7.00	3.00	4.18	1.250	1.0346	-0.7904	0.2330	0.4423
	7.00	3.00	4.22	1.500	1.1456	-0.8925	0.3893	0.6344
	7.00	3.00	4.24	1.750	1.3047	-1.0556	0.6349	0.9359
C	7.00	3.00	4.25	1.750	1.3164	-1.0673	0.6518	0.0000
	6.50	3.50	4.24	1.550	1.3210	-1.0645	0.6631	0.0052
	6.00	4.00	4.24	1.350	1.3149	-1.0540	0.6666	0.0177
	5.50	4.50	4.25	1.050	1.3084	-1.0378	0.6611	0.0373
	5.00	5.00	4.25	0.850	1.2958	-1.0150	0.6579	0.0662
	4.50	5.50	4.23	0.650	1.2754	-0.9676	0.6444	0.1239
	4.00	6.00	4.22	0.450	1.2257	-0.8794	0.6083	0.2416
	3.50	6.50	4.18	0.250	1.1171	-0.6966	0.5449	0.4870
	3.00	7.00	4.19	0.050	0.9415	-0.4484	0.4494	0.8422
10	3.00	7.00	4.19	0.050	0.9405	-0.4445	0.4462	0.0000
	3.50	6.50	4.20	0.250	0.9451	-0.4425	0.4401	0.0032
	4.00	6.00	4.19	0.450	0.9517	-0.4473	0.4378	0.0115
	4.50	5.50	4.18	0.650	0.9595	-0.4528	0.4350	0.0212
	5.00	5.00	4.18	0.850	0.9707	-0.4582	0.4320	0.0338
	5.50	4.50	4.15	1.050	0.9908	-0.4737	0.4326	0.0619
	6.00	4.00	4.12	1.350	1.0282	-0.5035	0.4599	0.1210
	6.50	3.50	4.11	1.550	1.1290	-0.5939	0.5610	0.2946
	7.00	3.00	4.16	1.750	1.3516	-0.8208	0.8438	0.7181
C	7.00	3.00	4.17	1.750	1.3564	-0.8272	0.8428	0.0000
	7.00	3.00	4.17	1.500	1.3632	-0.8337	0.8479	0.0117
	7.00	3.00	4.18	1.250	1.3654	-0.8326	0.8456	0.0133

FILE NAME	(CONTINUED)	:	ABC10.1D					
7.00	3.00	4.19	1.000	1.3664	-0.8314	0.8489	0.0146	
7.00	3.00	4.21	0.750	1.3727	-0.8306	0.8494	0.0201	
7.00	3.00	4.22	0.500	1.3786	-0.8324	0.8424	0.0244	
7.00	3.00	4.23	0.250	1.3863	-0.8335	0.8386	0.0308	
B	7.00	3.00	4.23	0.000	1.3956	-0.8307	0.8185	0.0366

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FILE NAME                                     :      ABC10.2D
NUMBER OF POINTS                             :      48
APPARATUS USED                               :      DIR SHR
TYPE OF TEST                                 :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.)       :      7*7*7
INITIAL CONFINMENT STRESS (PSI)              :      5.0
INITIAL RELATIVE DENSITY DR ( % )           :      72.0
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PT.	SIC. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.000	0.0041	0.0009	-0.0005	0.0035
	5.40	4.60	4.97	0.000	0.0082	0.0017	0.0023	0.0073
	5.60	4.40	4.96	0.000	0.0144	0.0033	0.0027	0.0125
	5.80	4.20	4.93	0.000	0.0219	0.0034	0.0054	0.0199
	6.00	4.00	4.90	0.000	0.0280	0.0010	-0.0051	0.0268
	6.20	3.80	4.85	0.000	0.0400	-0.0088	-0.0052	0.0444
	6.40	3.60	4.79	0.000	0.0593	-0.0204	-0.0014	0.0697
	6.60	3.40	4.69	0.000	0.0941	-0.0424	-0.0053	0.1166
	6.80	3.20	4.59	0.000	0.1639	-0.0881	-0.0008	0.2114
	7.00	3.00	4.49	0.000	0.2723	-0.1707	-0.0001	0.3679
	7.20	2.80	4.43	0.000	0.4364	-0.3025	-0.0053	0.6099
	7.40	2.60	4.39	0.000	0.6597	-0.4939	-0.0128	0.9489
B	7.40	2.60	4.39	0.000	0.6586	-0.4949	-0.0108	0.0000
	7.40	2.60	4.38	0.250	0.6809	-0.5150	-0.0164	0.0347
	7.40	2.60	4.36	0.500	0.7342	-0.5432	0.0016	0.1022
	7.40	2.60	4.33	0.750	0.8708	-0.6426	0.1030	0.2985
	7.40	2.60	4.34	1.000	0.9655	-0.7212	0.1847	0.4456
	7.40	2.60	4.36	1.250	1.1496	-0.8903	0.3841	0.7555
	7.40	2.60	4.38	1.500	1.3826	-1.1284	0.6935	1.1873
C	7.40	2.60	4.39	1.500	1.3899	-1.1407	0.7008	0.0000
	7.00	3.00	4.38	1.340	1.3906	-1.1368	0.6995	0.0035
	6.60	3.40	4.37	1.180	1.3877	-1.1275	0.7005	0.0134
	6.20	3.80	4.37	1.020	1.3879	-1.1131	0.7075	0.0252
	5.80	4.20	4.37	0.860	1.3815	-1.0972	0.6996	0.0450
	5.40	4.60	4.37	0.700	1.3737	-1.0701	0.6928	0.0753
	5.00	5.00	4.35	0.540	1.3570	-1.0135	0.6781	0.1390
	4.60	5.40	4.31	0.380	1.3168	-0.9224	0.6574	0.2493
	4.20	5.80	4.27	0.220	1.2449	-0.7757	0.6288	0.4304
	3.90	6.10	4.22	0.100	1.1530	-0.5991	0.5792	0.6551
	3.65	6.35	4.23	0.000	1.0970	-0.4994	0.5412	0.7871
	3.40	6.60	4.20	0.000	0.9976	-0.3468	0.4978	0.9945
10	3.40	6.60	4.20	0.000	0.9986	-0.3444	0.5010	0.0000
	3.65	6.35	4.20	0.000	1.0003	-0.3464	0.5000	0.0026
	3.90	6.10	4.20	0.100	1.0017	-0.3513	0.4978	0.0071
	4.20	5.80	4.20	0.220	1.0051	-0.3519	0.4949	0.0097
	4.60	5.40	4.21	0.380	1.0093	-0.3584	0.4910	0.0169
	5.00	5.00	4.19	0.540	1.0171	-0.3606	0.4900	0.0248
	5.40	4.60	4.19	0.700	1.0287	-0.3696	0.4872	0.0399
	5.80	4.20	4.16	0.860	1.0430	-0.3830	0.4906	0.0622

FILE NAME		(CONTINUED)					:	ABC10.2D	
		6.20	3.80	4.15	1.020	1.0705	-0.4068	0.5064	0.1060
		6.60	3.40	4.10	1.180	1.1266	-0.4582	0.5575	0.2027
		7.00	3.00	4.11	1.340	1.2388	-0.5722	0.6714	0.4080
		7.40	2.60	4.16	1.500	1.4740	-0.8374	0.9301	0.8655
C		7.40	2.60	4.17	1.500	1.4920	-0.8619	0.9317	0.0000
		7.40	2.60	4.18	1.000	1.4953	-0.8630	0.9319	0.0006
		7.40	2.60	4.19	0.500	1.5083	-0.8730	0.9189	0.0173
B		7.40	2.60	4.23	0.000	1.5450	-0.8927	0.8849	0.0516

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FILE NAME                               :      ABC11.1D
NUMBER OF POINTS                       :              33
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DPAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :      7*7*7
INITIAL CONFIMENT STRESS (PSI)         :      5.0
INITIAL RELATIVE DENSITY DR ( % )     :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0045	0.0043	0.0090	0.0084
	5.40	4.60	4.97	0.000	0.0057	0.0021	0.0077	0.0091
	5.60	4.40	4.95	0.000	0.0084	-0.0002	0.0031	0.0096
	5.80	4.20	4.92	0.000	0.0119	-0.0042	0.0061	0.0162
	6.00	4.00	4.88	0.000	0.0149	-0.0072	0.0049	0.0207
	6.20	3.80	4.82	0.000	0.0283	-0.0184	0.0065	0.0407
	6.40	3.60	4.73	0.000	0.0543	-0.0323	0.0056	0.0735
	6.60	3.40	4.63	0.000	0.0989	-0.0614	0.0141	0.1345
	6.80	3.20	4.52	0.000	0.1957	-0.1173	0.0047	0.2602
	7.00	3.00	4.43	0.000	0.3301	-0.2065	0.0077	0.4440
	7.20	2.80	4.40	0.000	0.5355	-0.3511	-0.0002	0.7312
	7.40	2.60	4.39	0.000	0.7605	-0.5317	-0.0047	1.0630
B	7.40	2.60	4.39	0.000	0.7624	-0.5302	-0.0123	0.0000
	7.40	2.60	4.39	0.250	0.7675	-0.5463	-0.0214	0.0182
	7.40	2.60	4.35	0.500	0.8263	-0.5993	0.0150	0.1095
	7.40	2.60	4.35	0.750	0.9151	-0.6711	0.0835	0.2425
	7.40	2.60	4.38	1.000	1.0485	-0.7773	0.1942	0.4452
	7.40	2.60	4.44	1.250	1.2190	-0.9338	0.3519	0.7272
	7.40	2.60	4.52	1.500	1.4028	-1.1307	0.5120	1.0613
C	7.40	2.60	4.51	1.500	1.4098	-1.1376	0.5171	0.0000
	7.65	2.35	4.58	1.400	1.6949	-1.4317	0.7297	0.4991
	7.90	2.10	4.60	1.300	2.1583	-1.9474	0.9920	1.3268
11	7.90	2.10	4.60	1.300	2.1626	-1.9557	0.9992	0.0000
	7.65	2.35	4.59	1.400	2.1589	-1.9584	0.9968	0.0033
	7.40	2.60	4.58	1.500	2.1586	-1.9577	0.9931	0.0048
C	7.40	2.60	4.58	1.500	2.1602	-1.9567	0.9975	0.0000
	7.40	2.60	4.57	1.250	2.1591	-1.9542	0.9945	0.0035
	7.40	2.60	4.56	1.000	2.1603	-1.9563	0.9976	0.0067
	7.40	2.60	4.56	0.750	2.1600	-1.9542	0.9957	0.0092
	7.40	2.60	4.56	0.500	2.1606	-1.9543	0.9982	0.0102
	7.40	2.60	4.55	0.250	2.1626	-1.9568	1.0023	0.0146
B	7.40	2.60	4.54	0.000	2.1662	-1.9577	0.9983	0.0177

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FILE NAME                               :      ABCD.1D
NUMBER OF POINTS                       :           60
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                          :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) :      7*7*7
INITIAL CONFINMENT STRESS (PSI)       :           5.0
INITIAL RELATIVE DENSITY DR ( % )     :           72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.97	0.000	0.0006	-0.0007	0.0054	0.0045
	5.40	4.60	4.97	0.000	0.0022	-0.0012	0.0011	0.0062
	5.60	4.40	4.94	0.000	0.0054	-0.0036	0.0031	0.0110
	5.80	4.20	4.92	0.000	0.0060	-0.0103	0.0046	0.0178
	6.00	4.00	4.89	0.000	0.0121	-0.0134	0.0018	0.0249
	6.20	3.80	4.86	0.000	0.0195	-0.0165	-0.0010	0.0337
	6.40	3.60	4.82	0.000	0.0313	-0.0249	0.0044	0.0505
	6.60	3.40	4.77	0.000	0.0542	-0.0413	0.0020	0.0825
	6.80	3.20	4.69	0.000	0.0885	-0.0625	0.0097	0.1286
	7.00	3.00	4.59	0.000	0.1517	-0.1090	0.0155	0.2186
	7.20	2.80	4.52	0.000	0.2552	-0.1876	0.0168	0.3676
	7.40	2.60	4.45	0.000	0.4258	-0.3239	0.0203	0.6187
	7.60	2.40	4.40	0.000	0.6776	-0.5412	0.0297	1.0020
B	7.60	2.40	4.40	0.000	0.6809	-0.5431	0.0241	0.0000
	7.60	2.40	4.39	0.250	0.6904	-0.5479	0.0268	0.0119
	7.60	2.40	4.35	0.500	0.8340	-0.6752	0.1037	0.2359
	7.60	2.40	4.30	0.750	0.9504	-0.7807	0.1890	0.4226
	7.60	2.40	4.27	1.000	1.1110	-0.9357	0.3211	0.6924
	7.60	2.40	4.27	1.250	1.2900	-1.1242	0.5084	1.0153
C	7.60	2.40	4.26	1.250	1.2978	-1.1305	0.5103	0.0000
	7.40	2.60	4.27	1.250	1.2976	-1.1273	0.5146	0.0024
	7.20	2.80	4.28	1.250	1.2953	-1.1262	0.5089	0.0062
	7.00	3.00	4.28	1.250	1.2929	-1.1227	0.5108	0.0106
D	7.00	3.00	4.28	1.250	1.2944	-1.1222	0.5161	0.0000
	7.00	3.00	4.26	1.500	1.2924	-1.1253	0.5096	0.0024
	7.00	3.00	4.23	1.750	1.3173	-1.1548	0.5346	0.0502
	7.00	3.00	4.23	2.000	1.3973	-1.2752	0.6866	0.2320
	7.00	3.00	4.23	2.250	1.5361	-1.5022	0.9875	0.5965
	7.00	3.00	4.20	2.500	1.7208	-1.9022	1.4382	1.1401
5	7.00	3.00	4.19	2.500	1.7291	-1.9473	1.4479	0.0000
	7.00	3.00	4.20	2.250	1.7337	-1.9627	1.4561	0.0184
	7.00	3.00	4.19	2.000	1.7334	-1.9627	1.4601	0.0193
	7.00	3.00	4.20	1.750	1.7399	-1.9583	1.4549	0.0245
	7.00	3.00	4.20	1.500	1.7453	-1.9522	1.4509	0.0302
	7.00	2.00	4.21	1.250	1.7488	-1.9433	1.4321	0.0415
	7.00	3.00	4.21	1.250	1.7487	-1.9423	1.4340	0.0420
D	7.00	3.00	4.24	1.250	1.7462	-1.9414	1.4351	0.0600
	7.15	2.85	4.22	1.400	1.7486	-1.9448	1.4285	0.0025
	7.30	2.70	4.21	1.550	1.7534	-1.9458	1.4283	0.0072

FILE NAME (CONTINUED)								ABCD.1D
	7.45	2.55	4.20	1.700	1.7571	-1.9499	1.4309	0.0139
	7.60	2.40	4.22	1.850	1.7802	-1.9816	1.4227	0.0535
	7.75	2.25	4.26	2.000	2.0288	-2.2676	1.6373	0.5241
	7.85	2.15	4.30	2.100	2.3102	-2.6184	1.9422	1.0964
3	7.85	2.15	4.30	2.100	2.3175	-2.6273	1.9438	0.0000
	7.75	2.25	4.29	2.000	2.3167	-2.6276	1.9428	0.0009
	7.60	2.40	4.30	1.850	2.3122	-2.6278	1.9473	0.0038
	7.45	2.55	4.30	1.700	2.3137	-2.6234	1.9508	0.0068
	7.30	2.70	4.30	1.550	2.3132	-2.6207	1.9476	0.0103
	7.15	2.85	4.30	1.400	2.3055	-2.6159	1.9422	0.0215
	7.00	3.00	4.31	1.250	2.3076	-2.6053	1.9349	0.0321
D	7.00	3.00	4.31	1.250	2.3071	-2.6069	1.9349	0.0000
	7.20	2.80	4.30	1.250	2.3139	-2.6044	1.9337	0.0053
	7.40	2.60	4.30	1.250	2.3179	-2.6066	1.9356	0.0106
	7.60	2.40	4.29	1.250	2.3198	-2.6120	1.9250	0.0135
C	7.60	2.40	4.30	1.250	2.3212	-2.6100	1.9273	0.0000
	7.80	2.20	4.30	1.250	2.3255	-2.6138	1.9344	0.0083
	8.00	2.00	4.33	1.250	2.3373	-2.6327	1.9173	0.0269
	8.20	1.80	4.46	1.250	2.4987	-2.8272	1.8732	0.2876
1*	8.60	1.40	4.69	1.250	3.3397	-3.9424	2.0075	1.8959

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FILE NAME                               :      ABCE.1D
NUMBER OF POINTS                       :              53
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                           :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)        :              5.0
INITIAL RELATIVE DENSITY DR ( % )      :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %

A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.93	0.000	0.0020	-0.0017	-0.0014	0.0032
	5.40	4.60	4.91	0.000	0.0049	-0.0025	-0.0071	0.0085
	5.60	4.40	4.89	0.000	0.0081	-0.0025	-0.0011	0.0100
	5.80	4.20	4.87	0.000	0.0135	-0.0039	-0.0058	0.0166
	6.00	4.00	4.86	0.000	0.0165	-0.0054	-0.0010	0.0196
	6.20	3.80	4.83	0.000	0.0258	-0.0058	0.0016	0.0286
	6.40	3.60	4.79	0.000	0.0357	-0.0151	-0.0016	0.0443
	6.60	3.40	4.72	0.000	0.0582	-0.0283	0.0014	0.0737
	6.80	3.20	4.63	0.000	0.0943	-0.0573	0.0025	0.1270
	7.00	3.00	4.51	0.000	0.1743	-0.1126	-0.0037	0.2380
	7.20	2.80	4.43	0.000	0.2896	-0.1941	0.0036	0.3995
	7.40	2.60	4.37	0.000	0.4551	-0.3205	0.0025	0.6385
	7.60	2.40	4.33	0.000	0.7065	-0.5358	-0.0047	1.0200
B	7.60	2.40	4.33	0.000	0.7114	-0.5382	-0.0059	0.0000

	7.60	2.40	4.32	0.250	0.7315	-0.5515	-0.0007	0.0275
	7.60	2.40	4.29	0.500	0.9038	-0.6998	0.1017	0.2921
	7.60	2.40	4.27	0.750	1.0294	-0.8183	0.2051	0.4981
	7.60	2.40	4.28	1.000	1.1784	-0.9676	0.3554	0.7563
	7.60	2.40	4.31	1.250	1.3808	-1.1707	0.5831	1.1172
C	7.60	2.40	4.31	1.250	1.3881	-1.1776	0.5893	0.0000

	7.40	2.60	4.31	1.250	1.3858	-1.1743	0.5987	0.0028
	7.20	2.80	4.31	1.250	1.3869	-1.1689	0.6005	0.0071
	7.00	3.00	4.31	1.250	1.3851	-1.1660	0.6012	0.0108
	6.80	3.20	4.31	1.250	1.3838	-1.1602	0.5998	0.0170
	6.60	3.40	4.31	1.250	1.3815	-1.1540	0.5994	0.0241
	6.40	3.60	4.30	1.250	1.3838	-1.1463	0.5981	0.0306
	6.20	3.80	4.31	1.250	1.3807	-1.1411	0.6074	0.0356
	6.00	4.00	4.31	1.250	1.3746	-1.1343	0.5998	0.0473
E	6.00	4.00	4.30	1.250	1.3728	-1.1344	0.6009	0.0000

	5.60	4.40	4.29	1.090	1.3572	-1.1168	0.6064	0.0253
	5.20	4.80	4.27	0.930	1.3439	-1.0847	0.6148	0.0607
	4.80	5.20	4.24	0.770	1.3156	-1.0179	0.6198	0.1371
	4.40	5.60	4.21	0.610	1.2677	-0.9149	0.6236	0.2579
	4.00	6.00	4.15	0.450	1.1782	-0.7500	0.6151	0.4618
	3.60	6.40	4.11	0.290	1.0650	-0.5507	0.5869	0.7141
	3.20	6.80	4.12	0.130	0.8823	-0.2729	0.5302	1.0826
10	3.20	6.80	4.13	0.130	0.8785	-0.2685	0.5317	0.0000

	3.60	6.40	4.13	0.290	0.8902	-0.2701	0.5307	0.0106
	4.00	6.00	4.13	0.450	0.8950	-0.2702	0.5260	0.0137

FILE NAME		(CONTINUED)						ABCE.1D
E		4.40	5.60	4.13	0.610	0.9022	-0.2751	0.5253
		4.80	5.20	4.14	0.770	0.9066	-0.2800	0.5234
		5.20	4.80	4.14	0.930	0.9179	-0.2876	0.5223
		5.60	4.40	4.14	1.090	0.9322	-0.3007	0.5268
		6.00	4.00	4.12	1.250	0.9599	-0.3281	0.5378
		6.00	4.00	4.12	1.250	0.9628	-0.3260	0.5420
2		6.20	3.80	4.12	1.330	0.9758	-0.3491	0.5598
		6.40	3.60	4.11	1.410	1.0062	-0.3801	0.5892
		6.60	3.40	4.11	1.490	1.0503	-0.4229	0.6447
		6.80	3.20	4.11	1.570	1.1098	-0.4860	0.7168
		7.00	3.00	4.15	1.650	1.1921	-0.5713	0.8175
		7.20	2.80	4.19	1.730	1.3174	-0.7163	0.9945
		7.40	2.60	4.29	1.810	1.5032	-0.9518	1.2439
								1.1068

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FILE NAME                               :      ABCE8.1D
NUMBER OF POINTS                       :              39
APPARATUS USED                         :      DIR SHR
TYPE OF TEST                          :      DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  :      7*7*7
INITIAL CONFINMENT STRESS (PSI)       :              5.0
INITIAL RELATIVE DENSITY DR ( % )     :      72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0007	-0.0001	0.0005	0.0008
	5.40	4.60	4.97	0.000	0.0054	-0.0055	0.0048	0.0098
	5.60	4.40	4.95	0.000	0.0086	-0.0065	0.0060	0.0135
	5.80	4.20	4.93	0.000	0.0094	-0.0069	0.0030	0.0138
	6.00	4.00	4.91	0.000	0.0199	-0.0097	0.0071	0.0257
	6.20	3.80	4.86	0.000	0.0284	-0.0169	0.0123	0.0392
	6.40	3.60	4.82	0.000	0.0433	-0.0246	0.0034	0.0567
	6.60	3.40	4.76	0.000	0.0722	-0.0392	0.0102	0.0932
	6.80	3.20	4.69	0.000	0.1099	-0.0649	0.0093	0.1451
	7.00	3.00	4.62	0.000	0.1774	-0.1133	0.0122	0.2401
	7.20	2.80	4.58	0.000	0.2780	-0.1873	0.0131	0.3832
	7.40	2.60	4.61	0.000	0.4315	-0.3059	0.0144	0.6059
	7.60	2.40	4.54	0.000	0.6551	-0.4896	0.0130	0.9389
B	7.60	2.40	4.55	0.000	0.6595	-0.4925	0.0202	0.0000
	7.60	2.40	4.54	0.250	0.6748	-0.4967	0.0120	0.0167
	7.60	2.40	4.49	0.500	0.7955	-0.6022	0.0715	0.2030
	7.60	2.40	4.48	0.750	0.9170	-0.7101	0.1546	0.3949
	7.60	2.40	4.51	1.000	1.0647	-0.8497	0.2711	0.6391
	7.60	2.40	4.53	1.250	1.2439	-1.0402	0.4533	0.9618
C	7.60	2.40	4.53	1.250	1.2560	-1.0524	0.4612	0.0000
	7.40	2.60	4.47	1.250	1.2358	-1.0893	0.4527	0.0295
	7.20	2.80	4.46	1.250	1.2310	-1.0874	0.4503	0.0354
	6.90	3.10	4.45	1.250	1.2284	-1.0833	0.4551	0.0401
	6.60	3.40	4.45	1.250	1.2277	-1.0764	0.4567	0.0466
	6.30	3.70	4.44	1.250	1.2254	-1.0660	0.4575	0.0573
	6.00	4.00	4.44	1.250	1.2195	-1.0560	0.4530	0.0709
E	6.00	4.00	4.50	1.250	1.2206	-1.0550	0.4562	0.0000
	5.70	4.30	4.42	1.370	1.2135	-1.0404	0.4541	0.0181
	5.40	4.60	4.40	1.490	1.2070	-1.0124	0.4544	0.0474
	5.10	4.90	4.38	1.610	1.1922	-0.9567	0.4799	0.1029
	4.80	5.20	4.36	1.730	1.1598	-0.8781	0.5283	0.1846
	4.50	5.50	4.33	1.850	1.0976	-0.7665	0.6220	0.3014
	4.20	5.80	4.29	1.970	1.0056	-0.6165	0.7728	0.4415
	3.90	6.10	4.30	2.090	0.8662	-0.4220	0.9856	0.5866
	3.60	6.40	4.27	2.210	0.6477	-0.1701	1.3063	0.6544
	3.30	6.70	4.30	2.330	0.2881	0.1749	1.7843	0.8560
	3.00	7.00	4.32	2.450	-0.3283	0.6420	2.4528	1.5535
8*	2.70	7.30	4.35	2.570	-1.1570	1.1977	3.0750	2.5702

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FILE NAME                               : ACBA.1D
NUMBER OF POINTS                       : 29
APPARATUS USED                         : DIR SHR
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )     : 72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0005	0.0008	-0.0067	0.0055
	5.40	4.60	4.97	0.000	0.0052	-0.0001	-0.0017	0.0076
	5.60	4.40	4.96	0.000	0.0079	-0.0031	-0.0032	0.0123
	5.80	4.20	4.94	0.000	0.0114	-0.0031	-0.0036	0.0157
	5.80	4.20	4.93	0.150	0.0170	-0.0045	-0.0044	0.0217
	5.80	4.20	4.91	0.300	0.0229	-0.0056	-0.0128	0.0297
	5.80	4.20	4.91	0.450	0.0259	-0.0032	-0.0213	0.0344
	5.80	4.20	4.89	0.600	0.0287	-0.0038	-0.0296	0.0409
	6.00	4.00	4.88	0.600	0.0357	-0.0078	-0.0239	0.0457
	6.20	3.80	4.83	0.600	0.0461	-0.0133	-0.0225	0.0572
	6.40	3.60	4.77	0.600	0.0589	-0.0217	-0.0148	0.0725
	6.60	3.40	4.71	0.600	0.0829	-0.0381	-0.0119	0.1050
	6.60	3.40	4.67	0.800	0.0972	-0.0451	-0.0117	0.1226
	6.60	3.40	4.62	1.000	0.1232	-0.0593	-0.0025	0.1556
	6.60	3.40	4.55	1.250	0.1702	-0.0911	0.0326	0.2219
	6.80	3.20	4.50	1.250	0.2359	-0.1369	0.0979	0.3221
	7.00	3.00	4.42	1.250	0.3390	-0.2128	0.1953	0.4858
	7.20	2.80	4.41	1.250	0.4827	-0.3342	0.3212	0.7248
	7.40	2.60	4.38	1.250	0.7093	-0.5365	0.5076	1.1067
C	7.60	2.40	4.40	1.250	1.0049	-0.8223	0.7303	1.6150
	7.60	2.40	4.40	1.000	1.0153	-0.8299	0.7332	1.6295
	7.60	2.40	4.41	0.500	1.0224	-0.8376	0.7324	1.6406
B	7.60	2.40	4.42	0.000	1.0555	-0.8640	0.7231	1.6833
	7.20	2.80	4.42	0.000	1.0516	-0.8600	0.7170	1.6911
	6.80	3.20	4.41	0.000	1.0505	-0.8499	0.7157	1.7010
	6.20	3.80	4.42	0.000	1.0476	-0.8329	0.7064	1.7200
	5.60	4.40	4.41	0.000	1.0384	-0.8012	0.6984	1.7552
A	5.00	5.00	4.39	0.000	1.0160	-0.7468	0.6864	1.8190

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FILE NAME                               : CIR1.1D
NUMBER OF POINTS                       : 61
APPARATUS USED                         : DIR SHR
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.98	0.000	-0.0005	-0.0027	0.0032	0.0036
	5.40	4.60	4.96	0.000	0.0011	-0.0056	0.0046	0.0070
	5.60	4.40	4.95	0.000	0.0067	-0.0055	0.0102	0.0139
	5.80	4.20	4.93	0.000	0.0106	-0.0063	0.0085	0.0168
	6.00	4.00	4.90	0.000	0.0186	-0.0137	0.0014	0.0277
	6.20	3.80	4.87	0.000	0.0288	-0.0181	-0.0014	0.0399
	6.40	3.60	4.81	0.000	0.0430	-0.0287	0.0067	0.0605
	6.60	3.40	4.73	0.000	0.0802	-0.0489	0.0023	0.1078
B'	6.60	3.40	4.71	0.000	0.0821	-0.0498	0.0001	0.0000

	6.55	3.45	4.66	0.414	0.1148	-0.0740	-0.0047	0.0467
	6.39	3.61	4.65	0.800	0.1306	-0.0765	-0.0115	0.0631
	6.13	3.87	4.57	1.131	0.1444	-0.0777	0.0053	0.0765
	5.80	4.20	4.57	1.386	0.1532	-0.0722	0.0037	0.0837
	5.41	4.59	4.57	1.545	0.1562	-0.0610	0.0104	0.0930
A'	5.00	5.00	4.58	1.600	0.1484	-0.0491	0.0134	0.1090
	4.59	5.41	4.51	1.545	0.1348	-0.0280	0.0348	0.1350
	4.20	5.80	4.49	1.386	0.1142	0.0168	0.0701	0.1746
	3.87	6.13	4.45	1.131	0.0801	0.0780	0.1257	0.1883
	3.61	6.39	4.44	0.800	0.0681	0.0965	0.1292	0.1945
	3.45	6.55	4.43	0.414	0.0528	0.1178	0.1225	0.2004
	3.40	6.60	4.40	0.000	0.0384	0.1388	0.1199	0.2152
C'	3.40	6.60	4.41	0.000	0.0363	0.1403	0.1169	0.0000

	3.45	6.55	4.38	0.414	0.0469	0.1324	0.1172	0.0094
	3.61	6.39	4.39	0.800	0.0529	0.1315	0.1095	0.0181
	3.87	6.13	4.41	1.131	0.0588	0.1321	0.1083	0.0226
	4.20	5.80	4.42	1.386	0.0632	0.1315	0.1084	0.0255
	4.59	5.41	4.42	1.545	0.0720	0.1296	0.1085	0.0308
A'	5.00	5.00	4.43	1.600	0.0819	0.1258	0.1149	0.0337
	5.41	4.59	4.43	1.545	0.0996	0.1218	0.1204	0.0402
	5.80	4.20	4.44	1.386	0.1186	0.1140	0.1338	0.0509
	6.13	3.87	4.43	1.131	0.1327	0.1006	0.1528	0.0691
	6.39	3.61	4.41	0.800	0.1422	0.0871	0.1599	0.0799
	6.55	3.45	4.41	0.414	0.1513	0.0783	0.1541	0.0811
	6.60	3.40	4.38	0.000	0.1626	0.0636	0.1522	0.0902
B'	6.60	3.40	4.38	0.000	0.1655	0.0650	0.1479	0.0000

	6.55	3.45	4.37	0.414	0.1787	0.0525	0.1468	0.0121
	6.39	3.61	4.38	0.800	0.1868	0.0509	0.1428	0.0163
	6.13	3.87	4.39	1.131	0.1824	0.0539	0.1401	0.0221
	5.80	4.20	4.39	1.386	0.1787	0.0586	0.1390	0.0273

FILE NAME (CONTINUED)		: CIR1.1D						
A'	5.41	4.59	4.39	1.545	0.1783	0.0625	0.1384	0.0304
	5.00	5.00	4.40	1.600	0.1710	0.0725	0.1363	0.0405
	4.59	5.41	4.39	1.545	0.1672	0.0844	0.1416	0.0456
	4.20	5.80	4.38	1.386	0.1545	0.1007	0.1558	0.0474
	3.87	6.13	4.38	1.131	0.1351	0.1277	0.1640	0.0511
	3.61	6.39	4.38	0.800	0.1246	0.1447	0.1728	0.0597
	3.45	6.55	4.37	0.414	0.1133	0.1593	0.1655	0.0621
	3.40	6.60	4.36	0.000	0.0980	0.1759	0.1675	0.0727
C'	3.40	6.60	4.36	0.000	0.0969	0.1788	0.1717	0.0000
A'	3.45	6.55	4.36	0.414	0.1085	0.1716	0.1646	0.0115
	3.61	6.39	4.37	0.800	0.1086	0.1673	0.1628	0.0149
	3.87	6.13	4.38	1.131	0.1116	0.1648	0.1560	0.0216
	4.20	5.80	4.39	1.386	0.1170	0.1641	0.1474	0.0301
	4.59	5.41	4.40	1.545	0.1253	0.1601	0.1476	0.0333
	5.00	5.00	4.41	1.600	0.1308	0.1577	0.1552	0.0383
	5.41	4.59	4.42	1.545	0.1397	0.1491	0.1553	0.0398
	5.80	4.20	4.42	1.386	0.1451	0.1433	0.1708	0.0522
	6.13	3.87	4.41	1.131	0.1566	0.1363	0.1820	0.0625
	6.39	3.61	4.40	0.800	0.1671	0.1287	0.1861	0.0683
B'	6.55	3.45	4.39	0.414	0.1747	0.1227	0.1786	0.0717
	6.60	3.40	4.39	0.000	0.1845	0.1157	0.1742	0.0733

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FILE NAME                               : CIR2.1D
NUMBER OF POINTS                       : 71
APPARATUS USED                         : DIR SHR
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z (IN.) : 7*7*7
INITIAL CONFINEMENT STRESS (PSI)       : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.96	0.000	0.0039	-0.0011	0.0028	0.0048
	5.40	4.60	4.96	0.000	0.0079	0.0014	0.0033	0.0082
	5.60	4.40	4.95	0.000	0.0111	0.0013	0.0037	0.0112
	5.80	4.20	4.94	0.000	0.0177	-0.0001	0.0082	0.0190
	6.00	4.00	4.92	0.000	0.0232	-0.0045	0.0072	0.0264
	6.20	3.80	4.91	0.000	0.0318	-0.0078	0.0073	0.0362
	6.40	3.60	4.87	0.000	0.0436	-0.0200	0.0060	0.0555
	6.60	3.40	4.83	0.000	0.0717	-0.0362	0.0045	0.0919
	6.80	3.20	4.77	0.000	0.1108	-0.0848	0.0080	0.1637
	7.00	3.00	4.76	0.000	0.1795	-0.1341	0.0069	0.2605
	7.20	2.80	4.74	0.000	0.2880	-0.2132	0.0084	0.4142
	7.40	2.60	4.75	0.000	0.4326	-0.3284	0.0090	0.6268
	7.60	2.40	4.78	0.000	0.6540	-0.5128	0.0071	0.9586
B	7.60	2.40	4.77	0.000	0.6583	-0.5177	0.0119	0.0000
	7.56	2.44	4.75	0.454	0.7142	-0.5746	0.0293	0.0923
	7.14	2.56	4.74	0.898	0.8044	-0.6541	0.1044	0.2338
	7.25	2.75	4.75	1.303	0.8838	-0.7279	0.1868	0.3647
	6.99	3.01	4.75	1.673	0.9417	-0.7932	0.2685	0.4734
	6.67	3.33	4.76	1.993	0.9810	-0.8306	0.3425	0.5518
	6.30	3.70	4.74	2.252	1.0036	-0.8585	0.4341	0.6012
	5.89	4.11	4.71	2.443	1.0047	-0.8465	0.5505	0.6181
	5.45	4.55	4.66	2.561	0.9776	-0.7948	0.6929	0.6440
	5.00	5.00	4.63	2.600	0.9260	-0.7175	0.8517	0.6880
A'	4.55	5.45	4.59	2.561	0.8367	-0.6088	1.0676	0.7332
	4.11	5.89	4.60	2.443	0.7082	-0.4485	1.3291	0.7655
	3.70	6.30	4.60	2.252	0.5334	-0.2483	1.6295	0.8044
	3.33	6.67	4.66	1.993	0.3114	-0.0001	1.9317	0.9270
	3.01	6.99	4.70	1.673	0.1101	0.2318	2.1312	1.0731
	2.75	7.25	4.75	1.303	-0.0425	0.4218	2.1803	1.1522
	2.56	7.44	4.81	0.898	-0.1872	0.6146	2.1387	1.2024
	2.44	7.56	4.87	0.454	-0.3239	0.8187	2.0089	1.2411
	2.40	7.60	4.92	0.000	-0.4508	1.0335	1.8182	1.2919
C'	2.40	7.60	4.92	0.000	-0.4570	1.0666	1.8036	0.0900
	2.44	7.56	4.90	0.454	-0.4605	1.0820	1.7917	0.0062
	2.56	7.44	4.88	0.898	-0.4581	1.0913	1.7928	0.0132
	2.75	7.25	4.88	1.303	-0.4607	1.0904	1.7904	0.0150
	3.01	6.99	4.87	1.673	-0.4629	1.0936	1.8014	0.0247
	3.33	6.67	4.86	1.993	-0.4664	1.0910	1.8230	0.0388
	3.70	6.30	4.83	2.252	-0.4553	1.0861	1.8479	0.0465

FILE NAME	(CONTINUED)					:	CIR2.1D	
A'	4.11	5.89	4.80	2.443	-0.4335	1.0713	1.8802	0.0501
	4.55	5.45	4.76	2.561	-0.3965	1.0456	1.9211	0.0574
	5.00	5.00	4.71	2.600	-0.3475	1.0027	1.9754	0.0656
	5.45	4.55	4.67	2.561	-0.2697	0.9396	2.0777	0.0771
	5.89	4.11	4.64	2.443	-0.1564	0.8452	2.2054	0.0944
	6.30	3.70	4.63	2.252	-0.0022	0.7094	2.3636	0.1331
	6.67	3.33	4.63	1.993	0.1949	0.5262	2.5288	0.2004
	6.99	3.01	4.68	1.673	0.3577	0.3833	2.6028	0.2443
	7.25	2.75	4.77	1.303	0.5326	0.2404	2.5978	0.2620
	7.44	2.56	4.81	0.898	0.7353	0.0745	2.5177	0.2816
	7.56	2.44	4.90	0.454	0.9749	-0.1135	2.3537	0.3072
B	7.60	2.40	4.93	0.000	1.1758	-0.2615	2.1839	0.3375
	7.60	2.40	4.93	0.000	1.1758	-0.2615	2.1839	0.0000
A'	7.56	2.44	4.91	0.454	1.1904	-0.2723	2.1670	0.0018
	7.44	2.56	4.88	0.898	1.1933	-0.2772	2.1614	0.0028
	7.25	2.75	4.85	1.303	1.1987	-0.2846	2.1583	0.0067
	6.99	3.01	4.86	1.673	1.2008	-0.2881	2.1743	0.0200
	6.67	3.33	4.85	1.993	1.2014	-0.2901	2.1948	0.0351
	6.30	3.70	4.81	2.252	1.1973	-0.2797	2.2152	0.0429
	5.89	4.11	4.78	2.443	1.1812	-0.2595	2.2427	0.0461
	5.45	4.55	4.74	2.561	1.1496	-0.2204	2.2920	0.0513
	5.00	5.00	4.71	2.600	1.1155	-0.1696	2.3471	0.0604
	4.55	5.45	4.67	2.561	1.0549	-0.0965	2.4312	0.0734
	4.11	5.89	4.64	2.443	0.9654	0.0082	2.5457	0.0987
	3.70	6.30	4.61	2.252	0.8361	0.1510	2.7065	0.1579
	3.33	6.67	4.65	1.993	0.6742	0.3299	2.8660	0.2357
	3.01	6.99	4.69	1.673	0.5370	0.4825	2.9442	0.2837
	2.75	7.25	4.75	1.303	0.4132	0.6265	2.9446	0.2950
	2.56	7.44	4.81	0.898	0.2801	0.7983	2.8944	0.3157
	C'	2.44	7.56	4.82	0.454	0.2303	0.8843	2.8136
2.40		7.60	4.92	0.000	-0.0143	1.2015	2.5669	0.4135

```

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FILE NAME                               : CIR3.1D
NUMBER OF POINTS                        : 51
APPARATUS USED                         : DIF. SHR
TYPE OF TEST                           : DRAINED
INITIAL SAMPLE DIMENTIONS X,Y,Z(IN.)  : 7*7*7
INITIAL CONFINMENT STRESS (PSI)        : 5.0
INITIAL RELATIVE DENSITY DR ( % )      : 72.0
-----

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PT.	SIG. A PSI	SIG. B PSI	SIG. Z PSI	TAU. AB PSI	EPS. A %	EPS. B %	GAM. AB %	G-OCT. UPDAT. %
A	5.00	5.00	5.00	0.000	0.0000	0.0000	0.0000	0.0000
	5.20	4.80	4.99	0.000	0.0024	-0.0028	0.0061	0.0065
	5.40	4.60	4.99	0.000	0.0036	-0.0031	0.0072	0.0081
	5.60	4.40	4.99	0.000	0.0072	-0.0047	0.0036	0.0104
	5.80	4.20	4.99	0.000	0.0117	-0.0060	0.0064	0.0158
	6.00	4.00	4.95	0.000	0.0178	-0.0089	0.0027	0.0226
	6.20	3.80	4.93	0.000	0.0247	-0.0166	0.0074	0.0349
	6.40	3.60	4.88	0.000	0.0415	-0.0227	0.0130	0.0548
	6.60	3.40	4.84	0.000	0.0616	-0.0373	0.0144	0.0831
	6.80	3.20	4.81	0.000	0.0992	-0.0576	0.0057	0.1303
	7.00	3.00	4.76	0.000	0.1672	-0.1061	0.0115	0.2259
	7.20	2.80	4.73	0.000	0.2513	-0.1684	0.0127	0.3459
	7.40	2.60	4.71	0.000	0.3895	-0.2758	0.0100	0.5468
B*	7.40	2.60	4.71	0.000	0.3934	-0.2752	0.0120	0.0000
	7.36	2.64	4.64	0.436	0.4114	-0.2942	-0.0033	0.0302
	7.25	2.75	4.41	0.835	0.4568	-0.3306	0.0055	0.0972
	7.03	2.92	4.28	1.197	0.5048	-0.3641	0.0522	0.1652
	6.84	3.16	4.22	1.541	0.5839	-0.4353	0.1548	0.2963
	6.54	3.46	4.19	1.841	0.5901	-0.4755	0.2056	0.3435
	6.20	3.80	4.17	2.078	0.5831	-0.5058	0.2627	0.3770
	5.82	4.18	4.14	2.256	0.5737	-0.5092	0.3150	0.3857
	5.42	4.58	4.11	2.363	0.5599	-0.4842	0.3835	0.3994
A*	5.00	5.00	4.07	2.400	0.5281	-0.4484	0.4590	0.4266
	4.58	5.42	4.05	2.363	0.4748	-0.3732	0.5979	0.4620
	4.18	5.82	4.01	2.256	0.4079	-0.2932	0.7247	0.4867
	3.80	6.20	4.02	2.078	0.3031	-0.1576	0.9283	0.5138
	3.46	6.54	4.02	1.841	0.1768	-0.0090	1.1412	0.6122
	3.16	6.84	4.07	1.541	0.0879	0.1337	1.2805	0.7174
	2.92	7.08	4.09	1.197	0.0075	0.2629	1.3275	0.7735
	2.75	7.25	4.13	0.835	-0.0588	0.3849	1.3048	0.8134
	2.64	7.36	4.28	0.436	-0.1254	0.5039	1.2235	0.8361
	2.60	7.40	4.40	0.000	-0.2036	0.6476	1.1032	0.8722
C*	2.60	7.40	4.47	0.000	-0.2047	0.6912	1.0945	0.0000
	2.64	7.36	4.48	0.436	-0.2148	0.6943	1.0857	0.0035
	2.75	7.25	4.28	0.835	-0.2198	0.6952	1.0736	0.0084
	2.92	7.03	4.25	1.197	-0.2203	0.6978	1.0745	0.0108
	3.16	6.84	4.23	1.541	-0.2223	0.6943	1.0733	0.0139
	3.46	6.54	4.21	1.841	-0.2247	0.6970	1.0901	0.0271
	3.80	6.20	4.18	2.078	-0.2249	0.6982	1.1094	0.0399
	4.18	5.82	4.15	2.256	-0.2152	0.6898	1.1348	0.0466

FILE NAME	(CONTINUED)	:	CIR3.1D
A*	4.58 5.42 4.14 2.363 -0.1968	0.6722	1.1563 0.0508
	5.00 5.00 4.11 2.400 -0.1674	0.6498	1.1922 0.0542
	5.42 4.58 4.06 2.363 -0.1258	0.6086	1.2463 0.0552
	5.82 4.18 4.09 2.256 -0.0646	0.5488	1.3168 0.0602
	6.20 3.80 4.02 2.078 0.0276	0.4654	1.4258 0.0922
	6.54 3.46 4.03 1.841 0.1396	0.3699	1.5552 0.1585
	6.84 3.16 4.04 1.541 0.2303	0.2903	1.6026 0.1848
	7.08 2.92 4.09 1.197 0.3311	0.2061	1.5987 0.1927
	7.25 2.75 4.15 0.835 0.4509	0.1142	1.5617 0.2057
	7.36 2.64 4.19 0.436 0.5830	0.0065	1.4851 0.2188
B*	7.40 2.60 4.24 0.000 0.7026	-0.0861	1.3793 0.2319

APPENDIX B

VARIOUS DIAGRAMS AND FORMATS FOR DISPLAYING M.C.A. AND D.S.C. RESULTS

1. This Appendix contains typical diagrams and formats for presenting stress and strain results obtained in the MCA and DSC devices. The first set of diagrams, denoted Figures B1 through B8 show typical displays for experiment ACI3. The second set of diagrams shows typical stress-strain response curves for a DSC experiment (AB6). Figures B9 through B15 show these results.

2. Figure B1 shows the ACI3 stress path on the deviatoric plane. The axes are labelled s_x , s_y , and s_z (deviatoric stresses).

3. Figure B2 shows the corresponding strain path on the deviatoric strain plane. The axes are in this case labelled e_x , e_y , and e_z (deviatoric strains).

4. Figure B3 shows stress increments (deviatoric stress increments) plotted along the deviatoric strain path on the same diagram displayed in Figure B2. The deviatoric stress increment vectors are plotted from the given increment points on the strain path to which they pertain.

5. The opposite diagram, i.e. one which displays strain increment vectors along the stress path is also often shown as part of presentation of results.

6. Figure B4 shows volumetric strain ($EV = \epsilon_v$) versus octahedral strain ($EQ = \epsilon_q$) trace for the entire path described in the previous Figures.

7. Figure B5 shows deviatoric strain path ($DEV\text{-}EPS\text{ PATH} = (\dot{\epsilon}_{ij}\dot{\epsilon}_{ij})^{1/2}$) versus deviatoric stress path ($DEV\text{-}STR\text{ PATH} = (s_{ij}s_{ij})^{1/2}$). This display shows a monotonic increase or growth in the trace due to the nature of the two variables. Unloading (elastic) appears as nearly flat plateaus in the diagram.

8. Figure B6 shows both EV (ϵ_v) and EQ (ϵ_q) as function of the stress path $(\sigma_{ij}\sigma_{ij})^{1/2}$. Loading and unloading characteristics clearly show up in this diagram.

9. Figure B7 shows deviatoric work (D-work = $W_d = \int s_{ij} \dot{\epsilon}_{ij}$) as a function of deviatoric stress path. This diagram does not show response from the ACI3 experiment.

10. Figure B8 shows total work (T-work = $W = \int \sigma_{ij} \dot{\epsilon}_{ij}$) versus stress path. This diagram does not show ACI3 results.

11. These Figures have shown typical ways to display MCA results. Clearly there are many other formats and diagrams that can be used to show responses of materials under conventional and unconventional loading.

12. Figure B9 shows the stress paths for DSC experiment AB6 displayed on the TAU-AB (τ_{ab}) versus $(SA - SB)/2$ ($\sigma_a - \sigma_b$)/2 plane.

13. Figure B10 shows $(SA - SB)/2$ versus $(EA - EB)$ or $(\epsilon_a - \epsilon_b)$ response. Some of the key points are shown in the diagram.

14. Figure B11 shows $(SA - SB)/2$ versus GAMMA-AB (γ_{ab}). The same key points are also shown in this diagram.

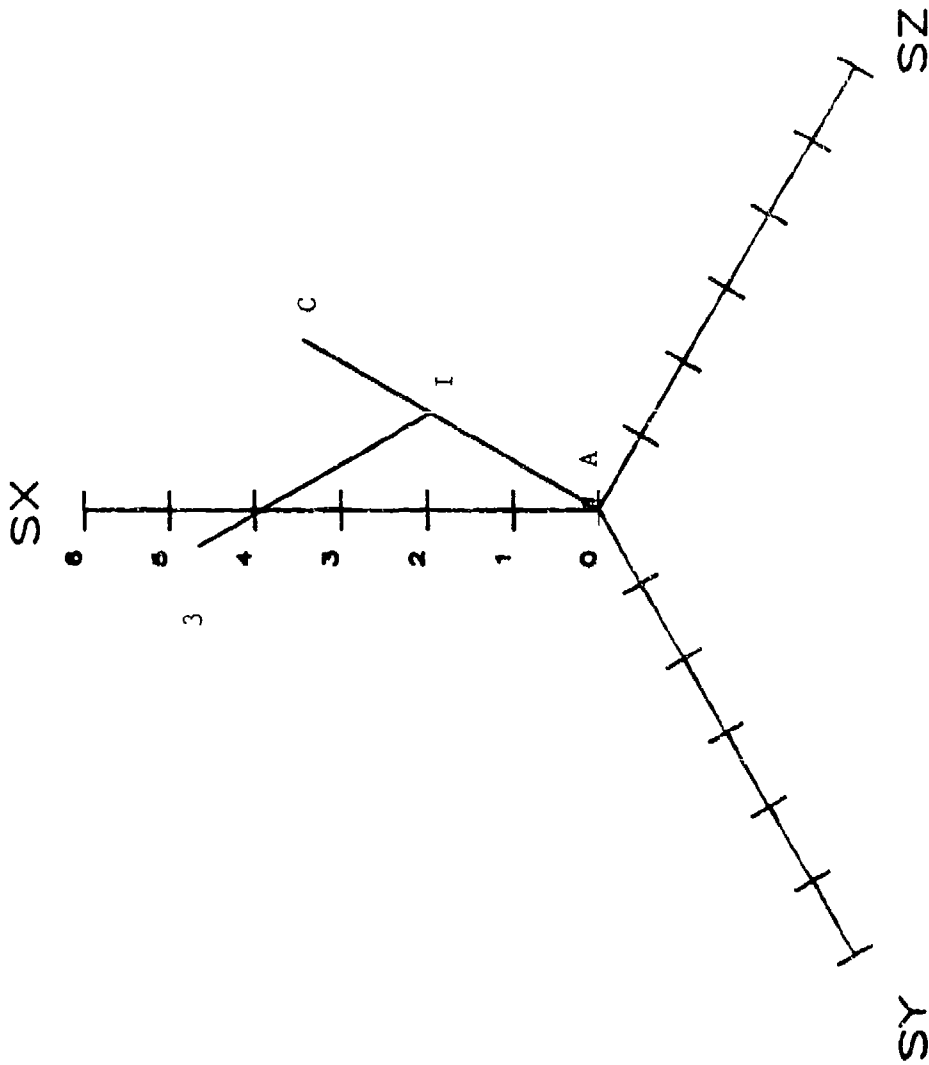
15. Figure B12 shows TAU-AB (τ_{ab}) versus GAMMA-AB. The number "1" in the diagrams describe the end point in the test.

16. Figure B13 shows $(SA - SB)/2$ versus EPS-VOL. (ϵ_v).

17. Figure B14 shows TAU-AB versus $(EA - EB)$. For analysis purposes it is often useful to use these "coupled" formats or diagrams to verify that a constitutive model and/or computer analysis technique work satisfactory.

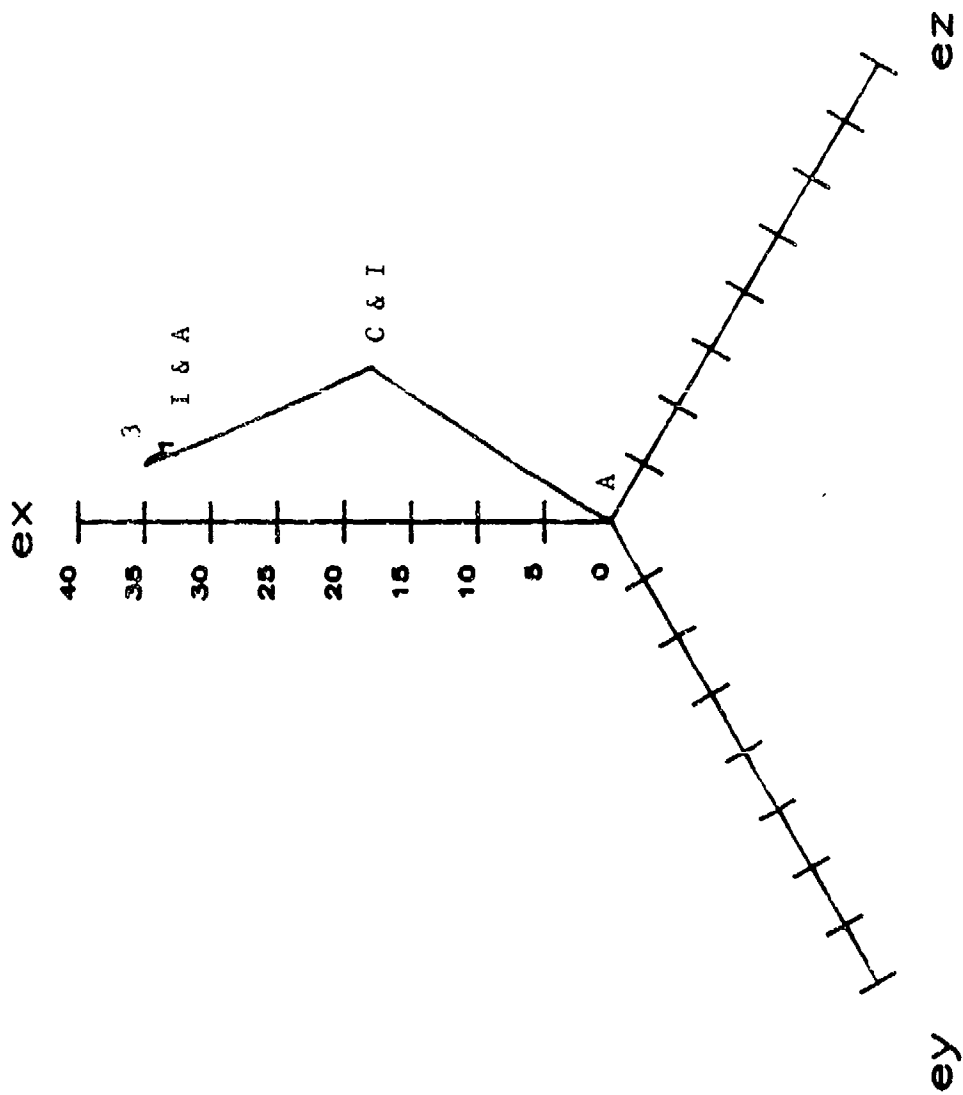
18. Figure B15 shows TAU-AB versus EPS-VOL. The large straight line unloading segment seen in the two last Figures may in part be due to too large load increments. They may also be due to the apparatus, which may have locked in position during this unloading part.

19. The pages in this Appendix have not been provided with page numbers. There are 17 pages in this Appendix.



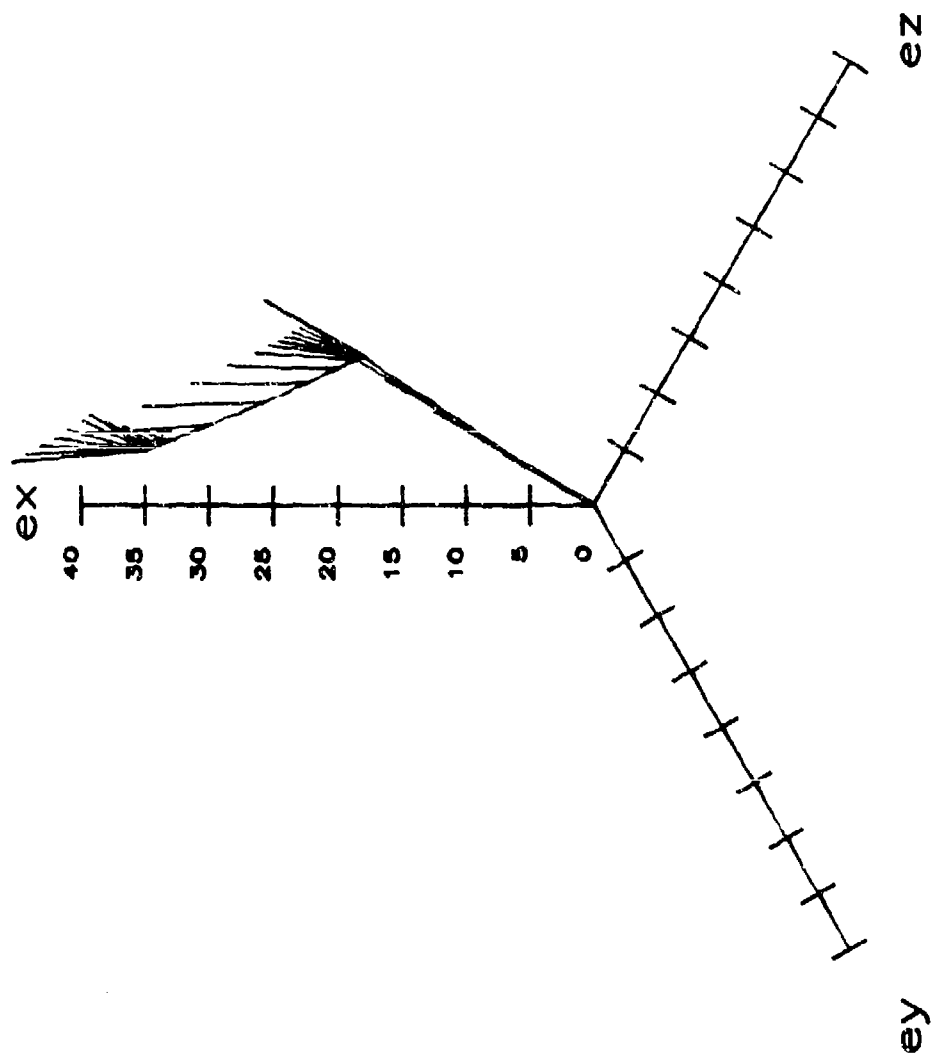
10°

Figure E1. Projection of the stress path for experiment ACI3 on the deviatoric plane



--3
10

Figure B2. Projection of the strain path for experiment ACI3 on the deviatoric strain plane



10⁻³

Figure B3. Projection of stress increment vectors on the strain path for experiment ACI3 on the deviatoric strain plane

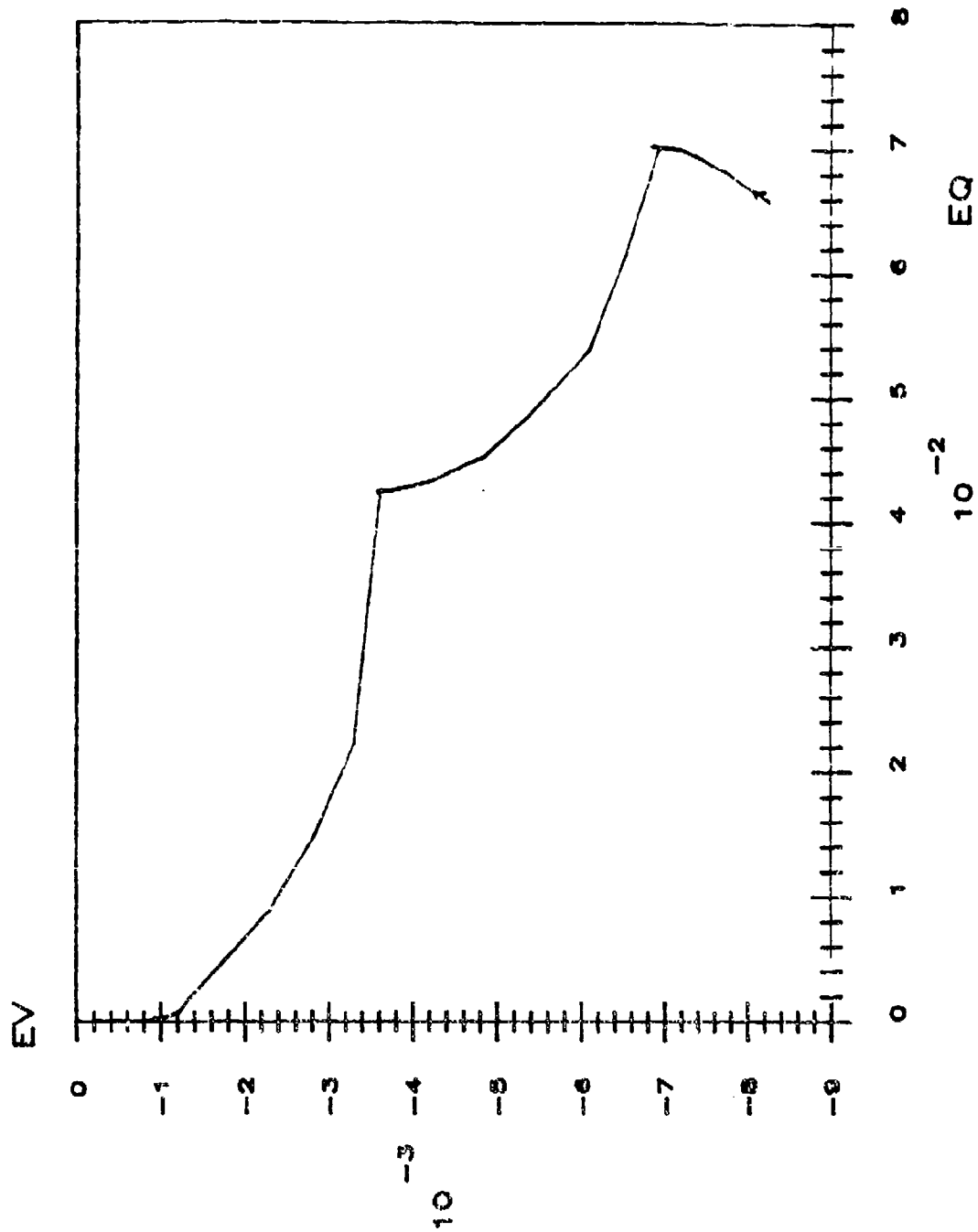


Figure B4. Volumetric strain vs. octahedral shear strain trace for experiment AC13

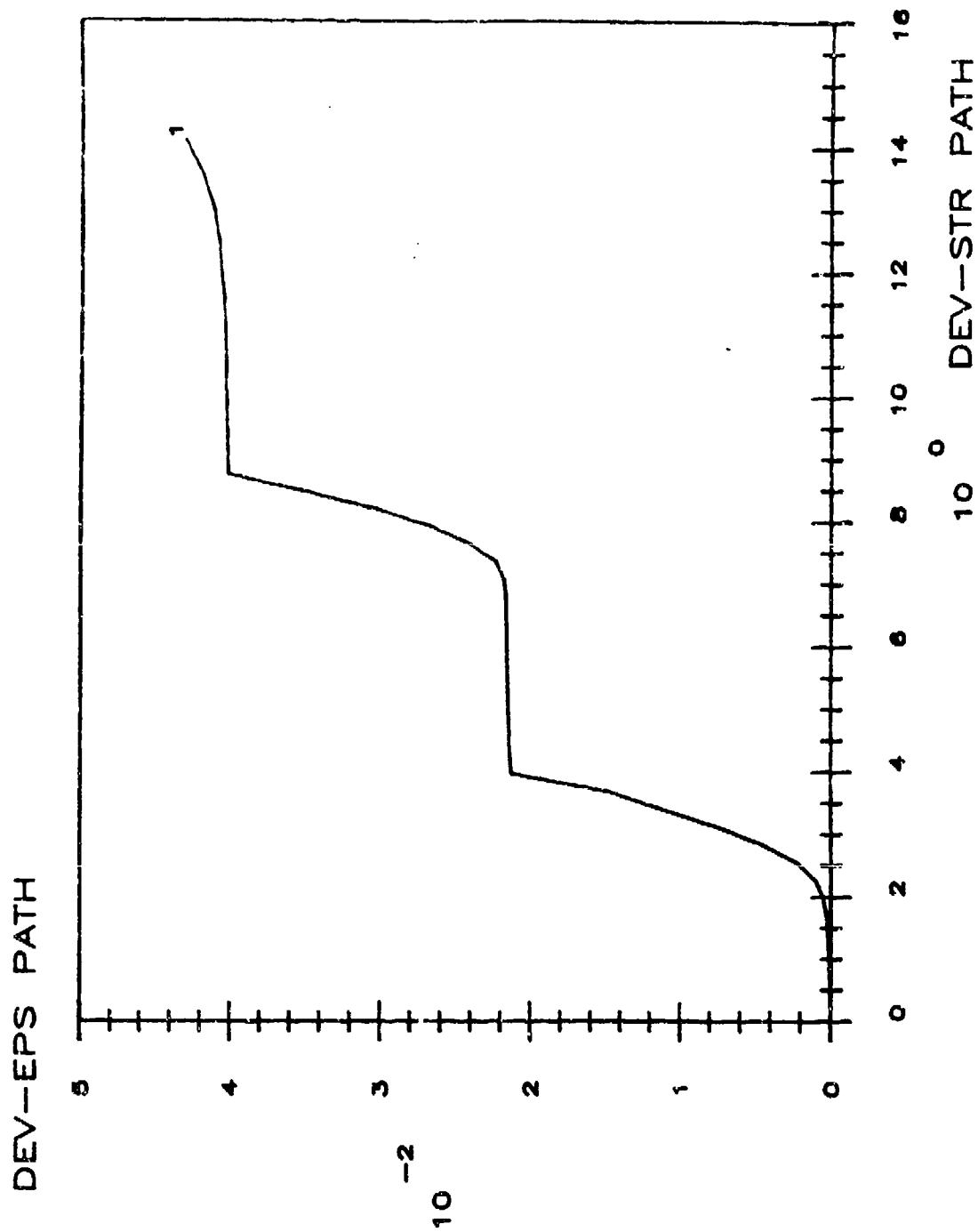


Figure B5. Deviatoric strain path vs. deviatoric stress path trace for experiment ACI3

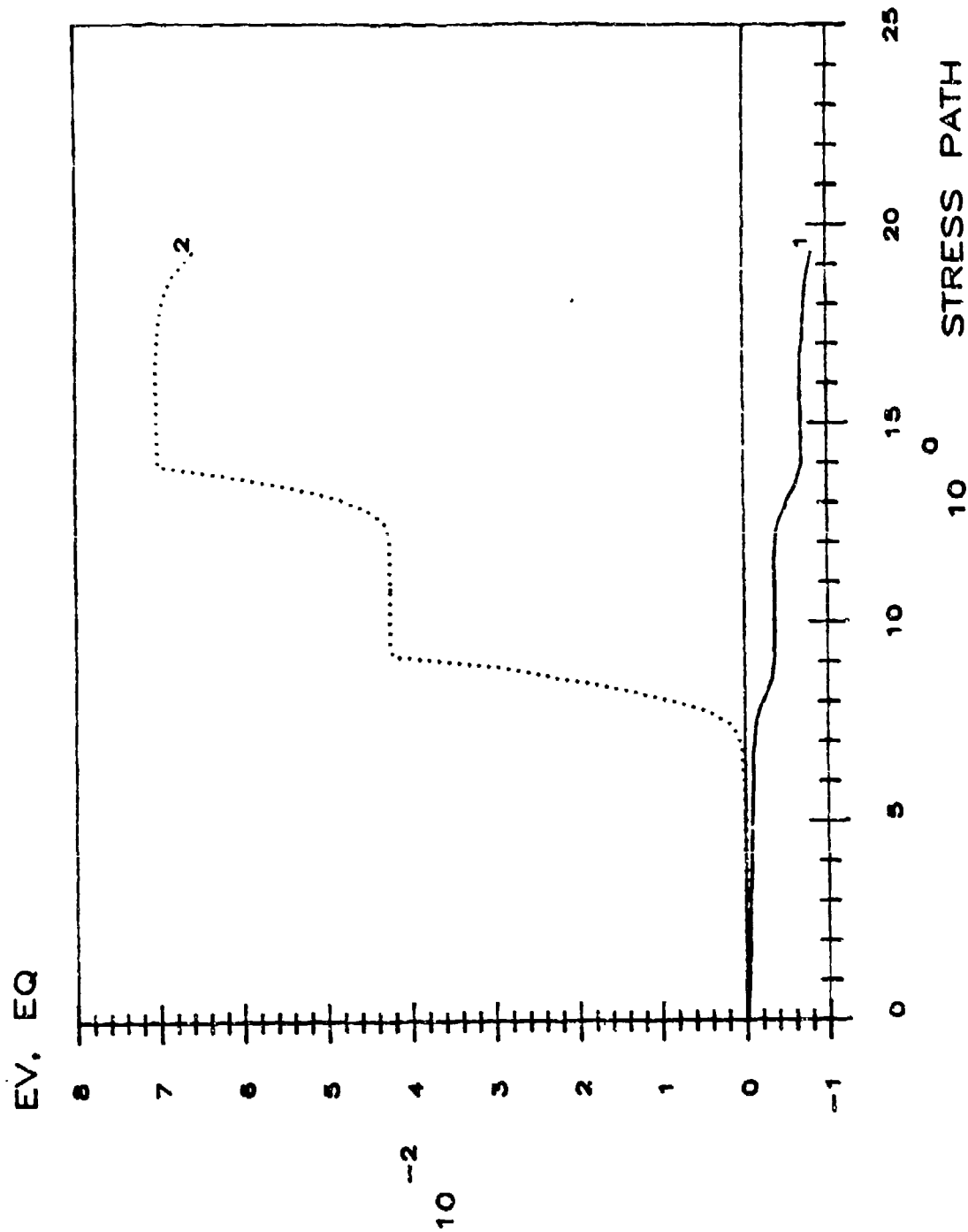


Figure B6. Volumetric and octahedral shear strains vs. stress path for experiment AC13

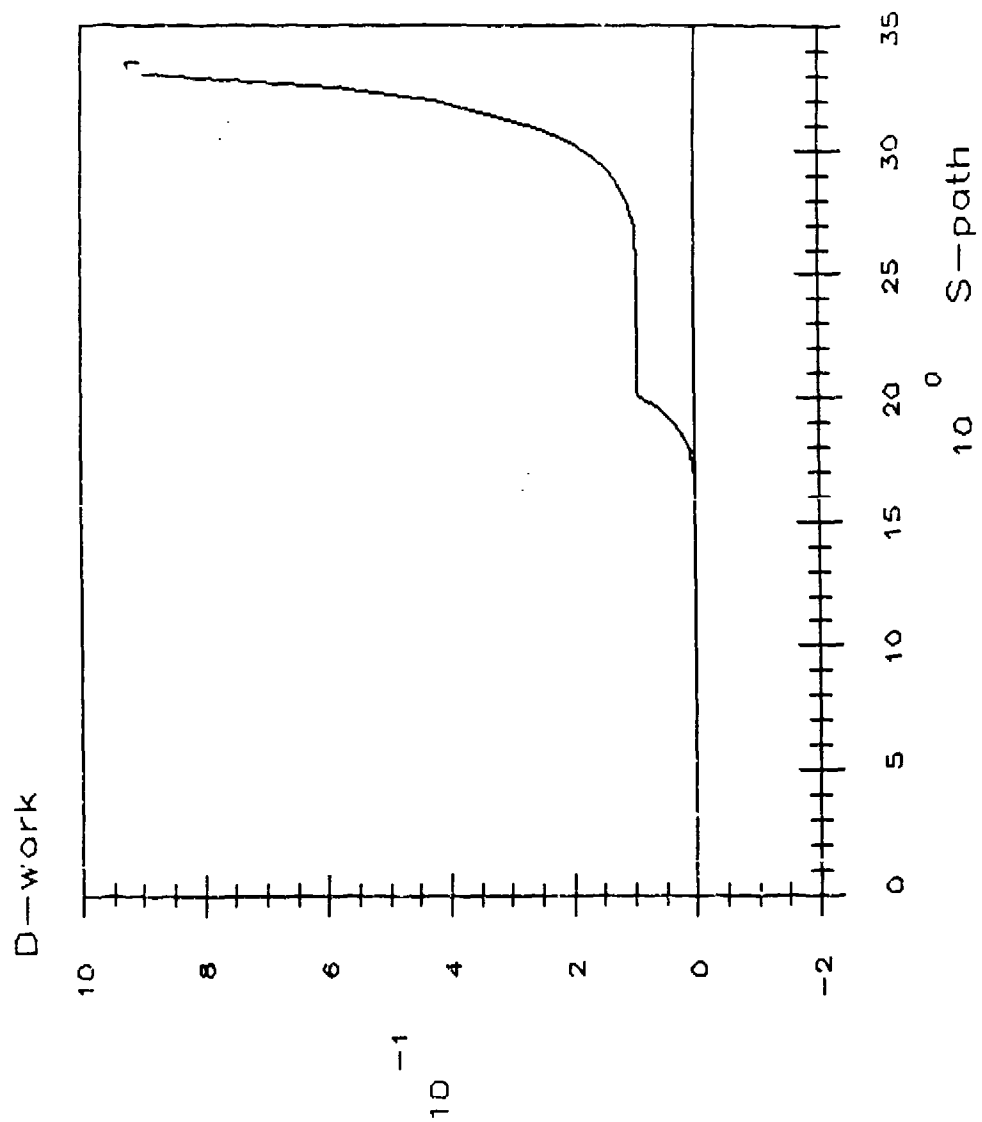


Figure B7. Deviatoric work vs. stress path trace

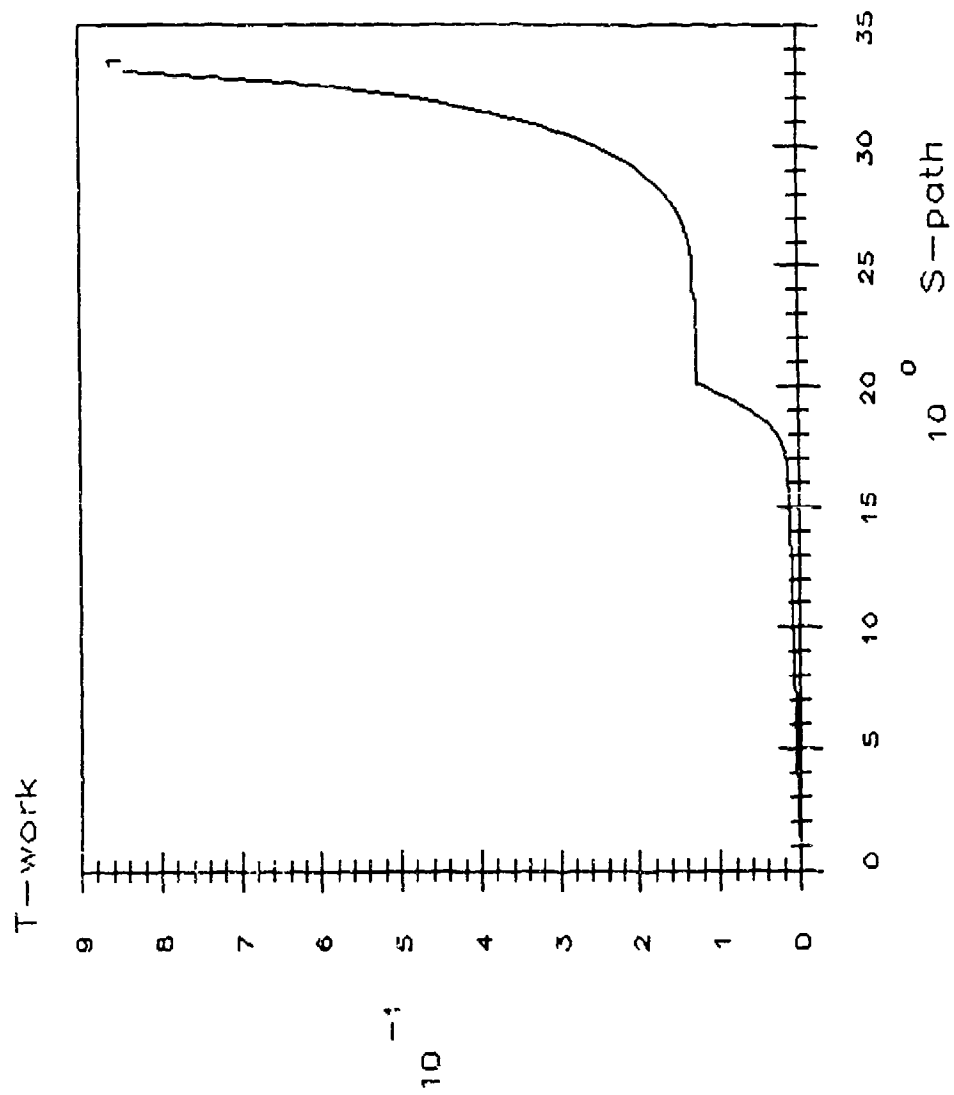


Figure B8. Total work vs. stress path trace

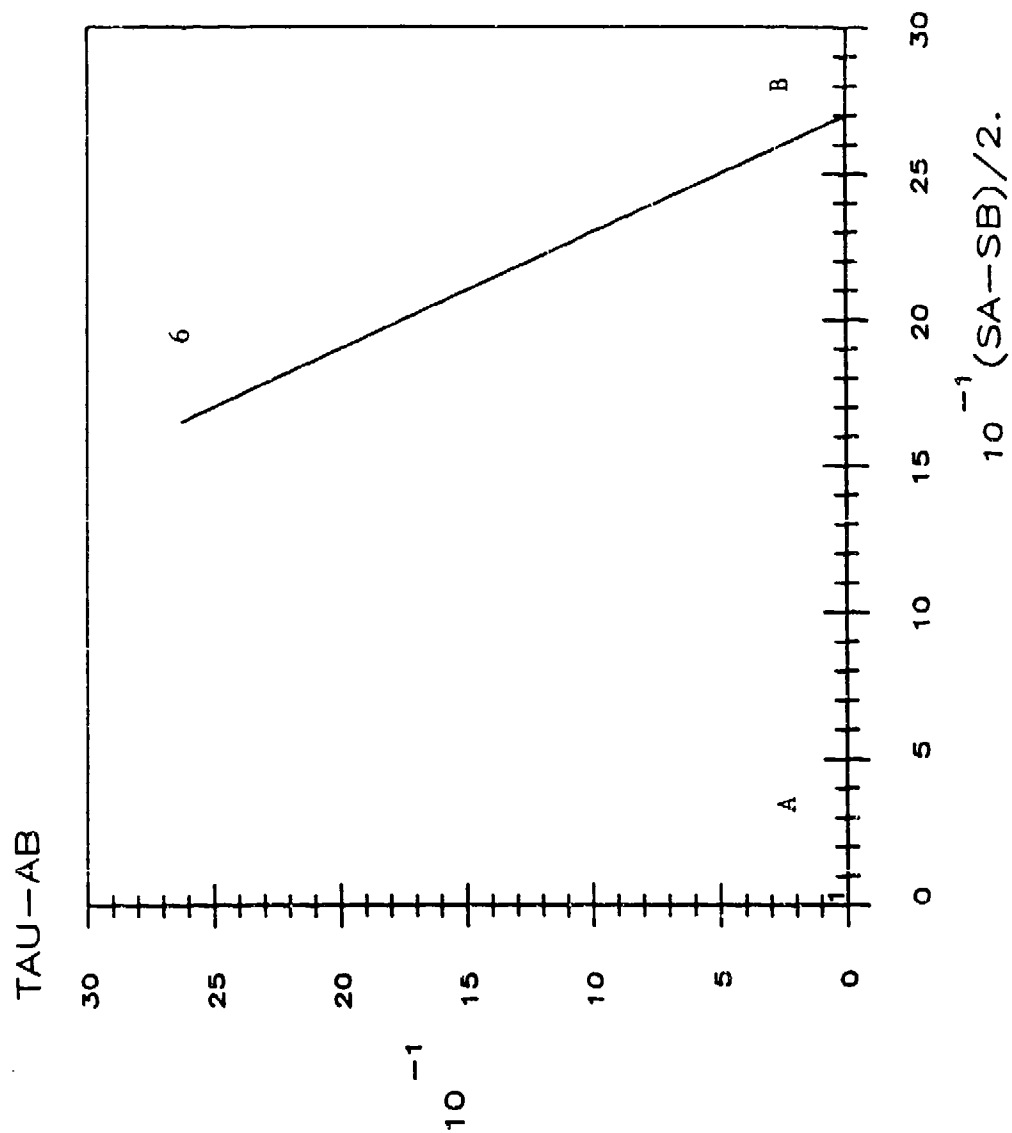


Figure B9. Stress path for DSC experiment AB6

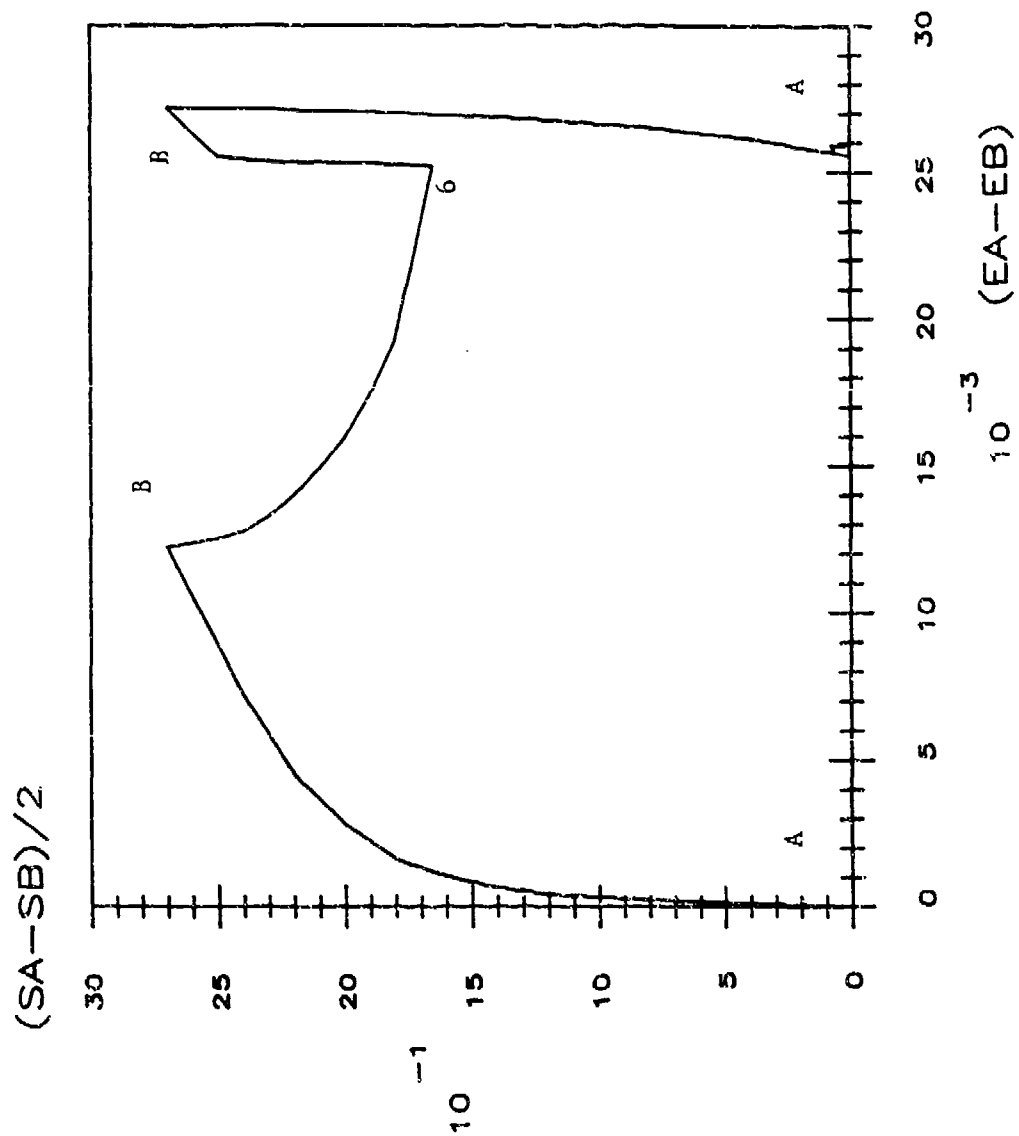


Figure B10. Stress-strain response curve for DSC experiment AB6

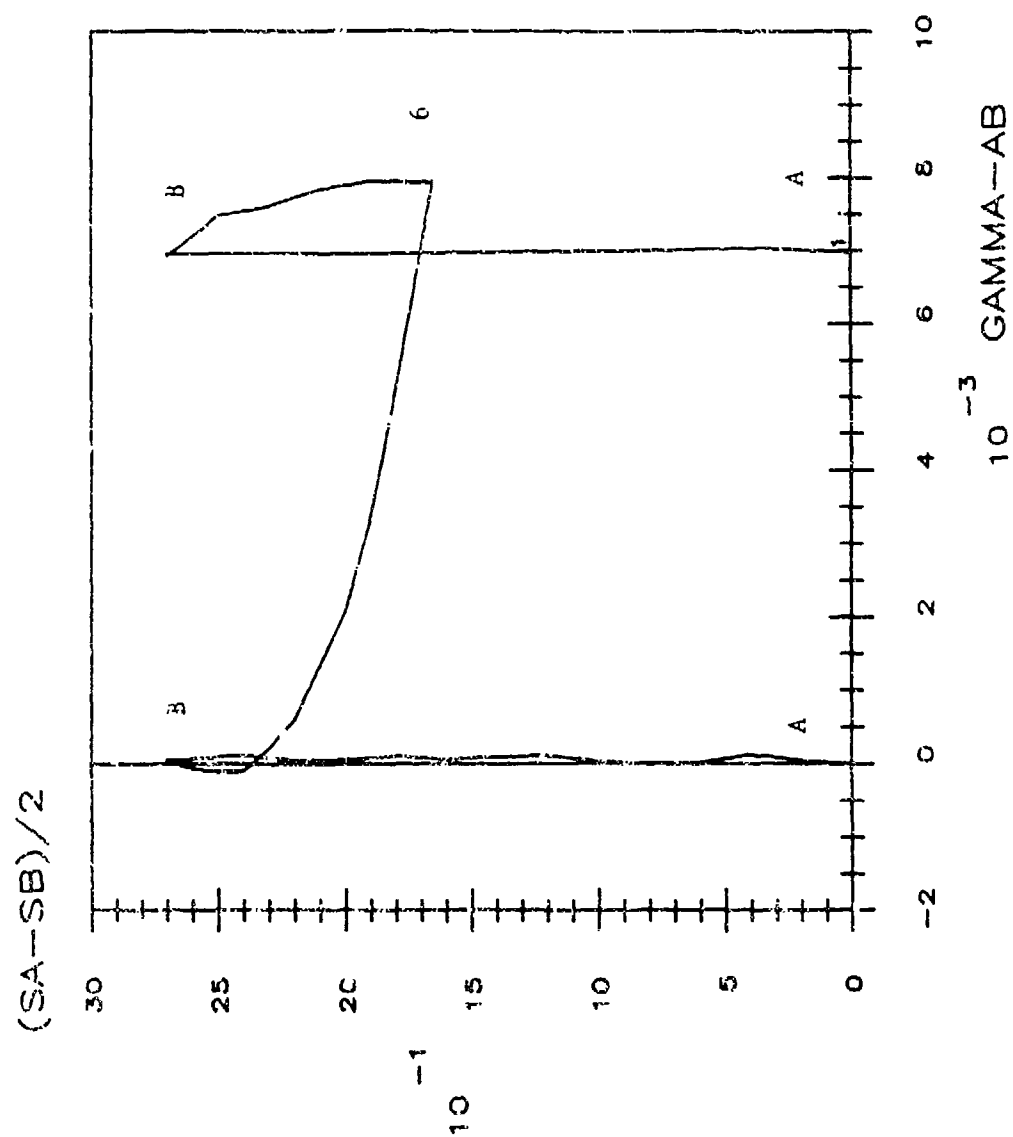


Figure B11. Stress-strain response curve for DSC experiment AB6

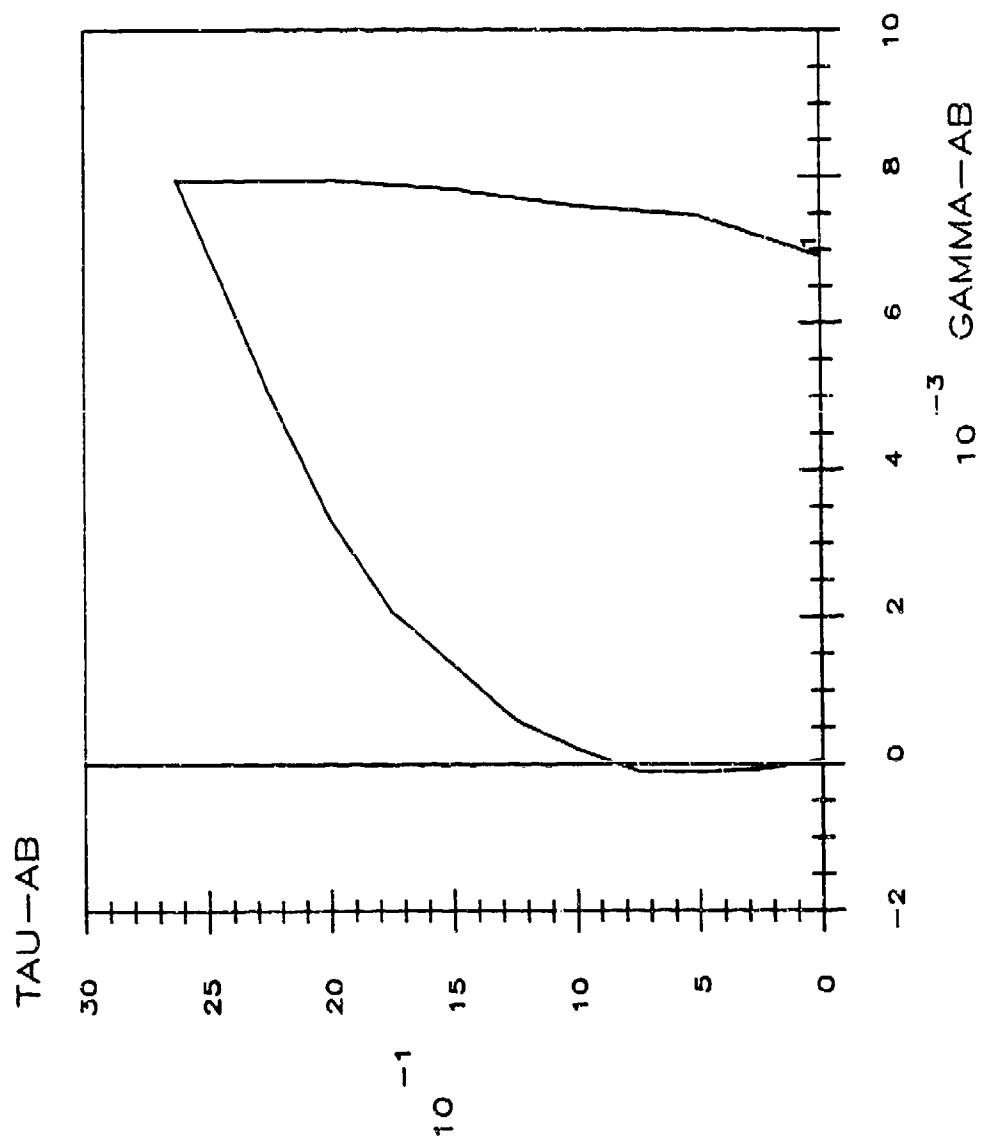


Figure B12. Stress-strain response curve for DSC experiment AB6

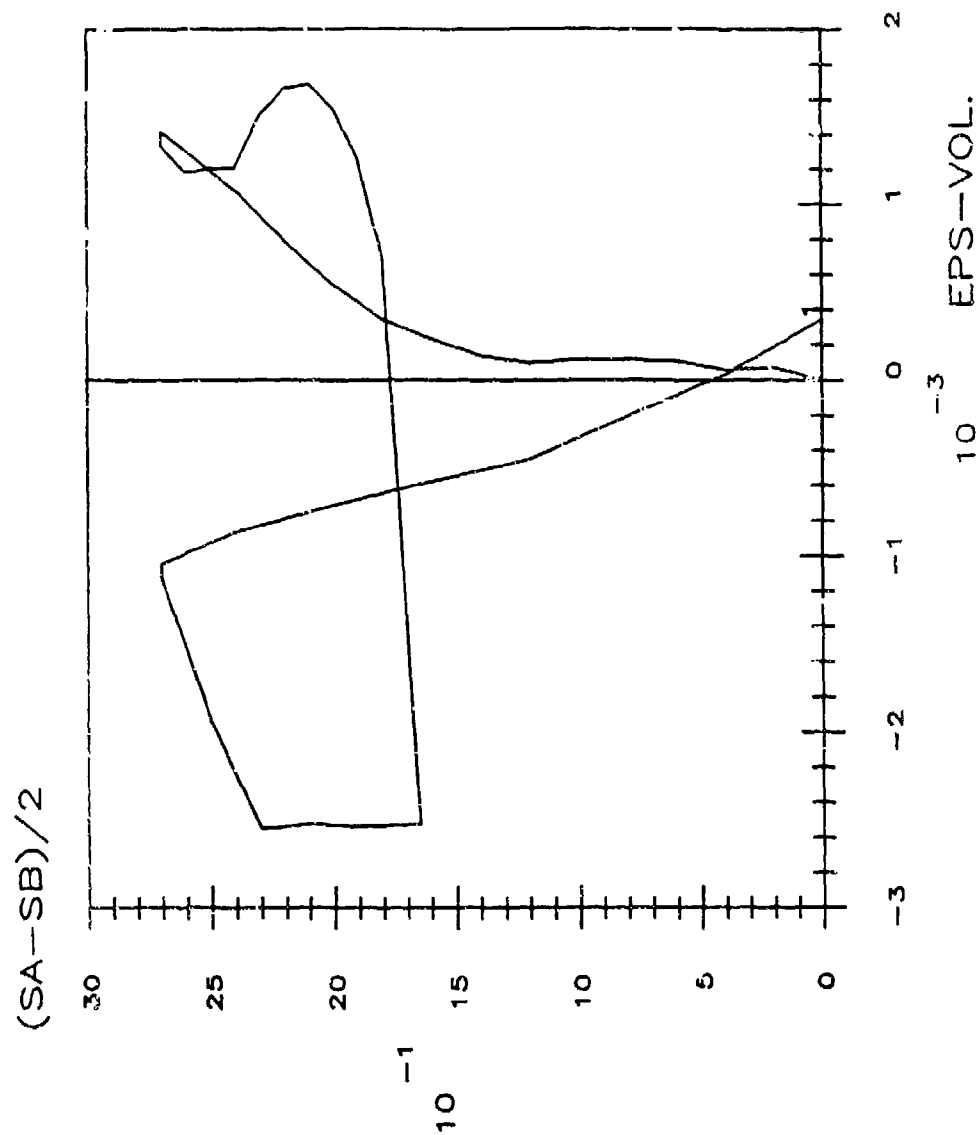


Figure B13. Stress-strain response curve for DSC experiment AB6

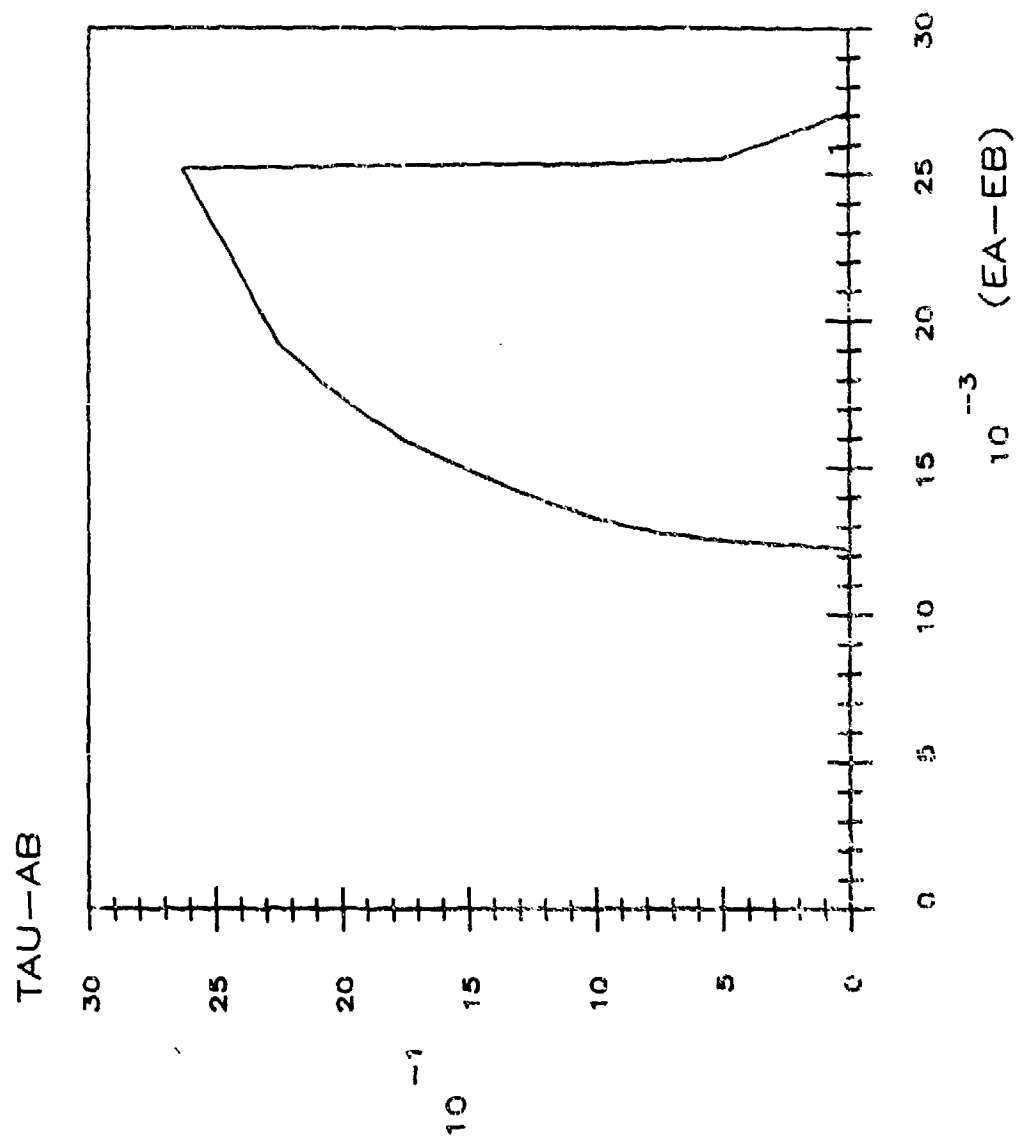


Figure B14. Stress-strain response curve for DSC experiment AB6

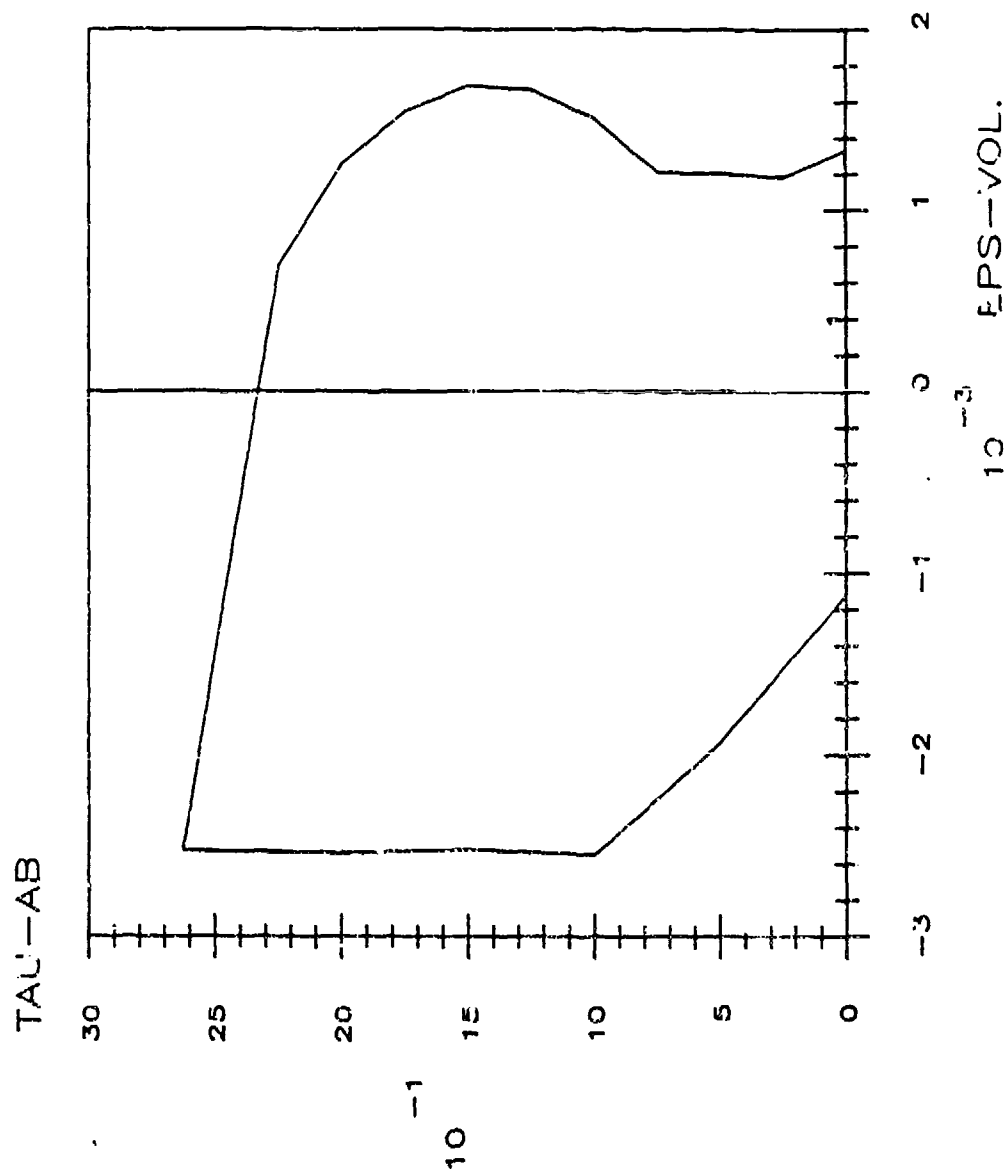


Figure B15. Stress-strain response curve for DSC experiment AB6

APPENDIX C

LIST OF SYMBOLS

γ_{ab} :	Shear strain (engineering -) measured in the DSC.
γ_{oct} :	Octahedral shear strain (Defined in Equations 1-4).
$\Delta\gamma_{oct}$:	Octahedral shear strain increment.
γ_{xy} :	Engineering shear strain (Cartesian; material coordinate system of specimen).
ϵ_a and ϵ_b :	Normal strains measured in the DSC.
ϵ_x and ϵ_y :	Normal strains (Cartesian; material coordinate system of specimen).
σ_a and σ_b :	Normal stresses applied in the DSC (σ_a and σ_b are <u>not</u> orthogonal).
σ_x and σ_y :	Normal stresses (Cartesian; material coordinate system of specimen)
τ_{ab} :	Shear stress applied in the DSC.
τ_{xy} :	Shear stress (Cartesian; material coordinate system of specimen)
σ_o :	Octahedral normal stress (mean stress) = $\frac{1}{3}(\sigma_x + \sigma_y + \sigma_z)$
ϵ_v :	Volumetric strain = $\epsilon_x + \epsilon_y + \epsilon_z$
e_x, e_y, e_z :	Deviatoric strain ($e_x = \epsilon_x - \frac{1}{3}\epsilon_v$, etc.)
s_x, s_y, s_z :	Deviatoric stress ($s_x = \sigma_x - \sigma_o$, etc.)
ϵ_q :	Octahedral shear strain; triaxial def.; $\frac{2}{3}(\epsilon_x - \epsilon_y)$, etc.

CONVERSION FACTORS, NON-SI TO SI (METRIC)

UNITS OF MEASUREMENT

Non-SI units of measurement used in this report can be converted to SI (metric) units as follows:

Multiply	By	To Obtain
inches	0.0254	meters (metres; m)
pounds (force) per square inch (psi)	6894.757	Pascals (Pa) (1 kPa = 1000 Pa)