

Lawrence Livermore Laboratory

BIBLIOGRAPHY OF FLYWHEEL ENERGY STORAGE SYSTEMS

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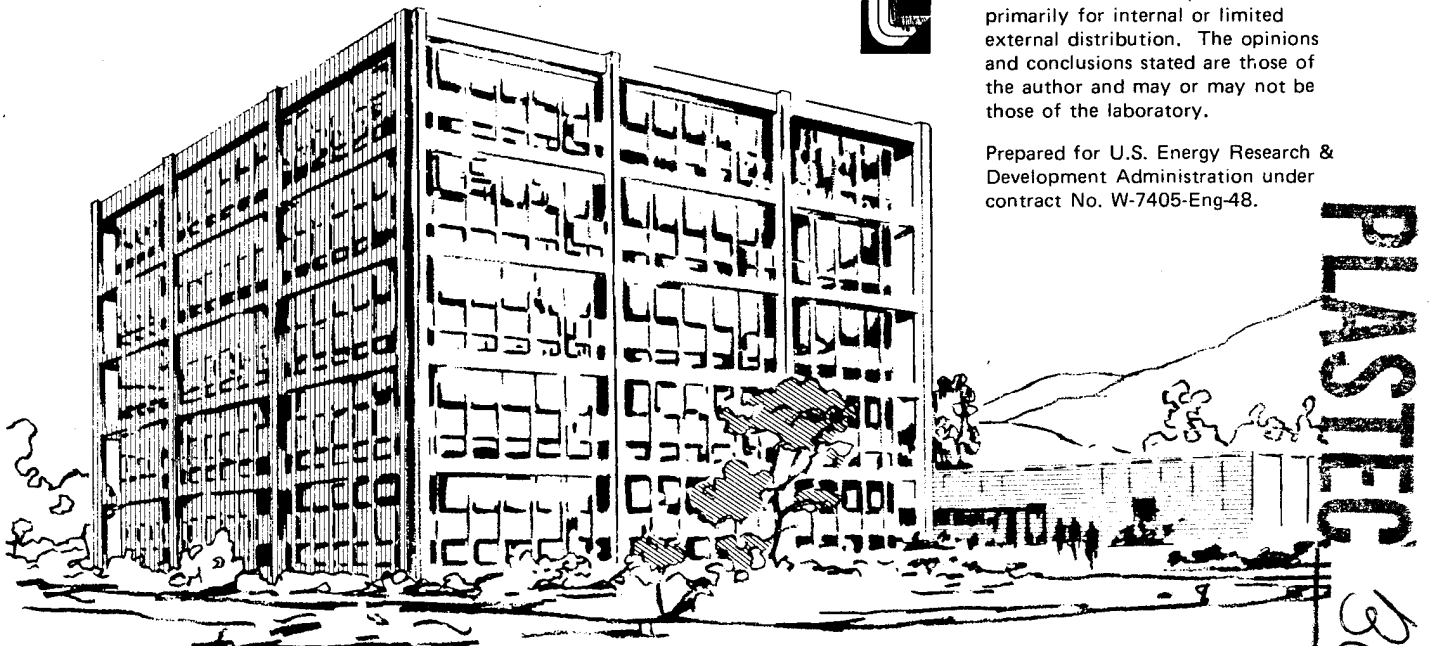
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This preliminary bibliography has been prepared for distribution at the 1977 Flywheel Technology Symposium in San Francisco, California, October 5-7, 1977.



This is an informal report intended primarily for internal or limited external distribution. The opinions and conclusions stated are those of the author and may or may not be those of the laboratory.

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Foreword

The Data Management Research Project in the Computation Department of the Lawrence Livermore Laboratory (LLL/DMRP) has the responsibility to advance the state of the art in the efficient use of information and data by machine. We distinguish two main activities: First, we provide support to LLL and ERDA in programs that deal with the prime mission of our Laboratory and with energy and environmentally related research and development. Second, we design and implement data base management techniques to permit a more effective use of the growing requirements for data by administrators, engineers and scientists who are not computer programmers.

One of the most challenging projects undergoing development by the staff of LLL/DMRP is the creation of an *Integrated Information System (IIS)* for the rapidly expanding import of energy storage. This project, under contract to the Energy Storage Division of the U.S. Energy Research and Development Administration (ERDA/STOR), is to provide a user-oriented data base and technical/management information system by interactive access to accurate and up-to-date: Material properties and their supporting bibliographies, storage technology characterization data, energy storage systems data, and models for decision analysis. Preparations are under way to aggregate these technical and administrative data bases on a PDP-11/70 computer at LLL, accessible over the ARPAnet and by telephone dialup. Contract No. E(49-1)-3835.

This bibliography on the properties and the mechanics of fiber composites, matrix materials, and on flywheel energy storage systems is one of a series of timely references to the world literature:

1. *Flywheels & Fiber Composites*
2. *Molten Salt Electrolytes*
3. *Thermal Energy Storage Materials*
4. *Aqueous Electrolytes*
5. *Hydrogen Energy Storage Materials*

The present *Flywheel Bibliography* is a preliminary edition issued especially for the 1977 Flywheel Technology Symposium in San Francisco, California, October 5-7. We hope that any missing citations, or comments in general, will be brought to our attention in time for a more complete edition to be published for the forthcoming Second International Conference on Composite Materials (ICCM-II) to be held in Toronto, Canada, April 16-18, 1978.

The bibliographic data bases are the precursors to numerical data bases of material properties. These are being created at LLL in parallel with data that is evaluated by nationally recognized evaluation centers under auspices of the Office of Standard Reference Data of the National Bureau of Standards, and administrative leadership by Dr. Lew Gevantman.

In the future, these data bases will be made accessible over the ARPAnet and by telephone dialup, as indicated earlier. At that time, the time lag necessarily associated with a printed rendition will be shortened considerably.

The ERDA Division of Energy Storage Systems is directed by Dr. George F. Pezdirtz. The contract of our work is being administered by Dr. Lynne Holt of the Applications Analysis Branch. The *Flywheel Bibliography* has been prepared in particular to provide the Advanced Physical Systems Branch, under Dr. George Chang, with a useful reference guide to ongoing research in the field.¹⁻⁴

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Introduction

A rotating wheel contains stored mechanical energy and, if connected to an engine or machine, acts as a "flywheel" to smooth out speed variations by alternately absorbing or delivering energy as its speed is increased or decreased by the machine. The principle is probably as old as the wheel itself, and is used in the ancient potter's wheel, in steam and gasoline engines, and in large equipment such as a dragline shovel.

To achieve increased energy concentration, flywheels would need to operate at high speeds that generate tremendous centrifugal force. To reduce the possibility of accidents, recent attempts to design high capacity flywheels (for load-leveling and other applications) have concentrated on super-strong material and safety designs.

The illustration below shows a flywheel powered passenger bus built in Switzerland. Electrical energy, drawn from trolley wires at periodic stops, speeds up the large internal flywheel to store the energy needed to operate the bus at other times. Similar buses - actually large-scale versions of the familiar child's toy - are being developed for use in San Francisco, and the idea is being tested for subway cars in New York City.

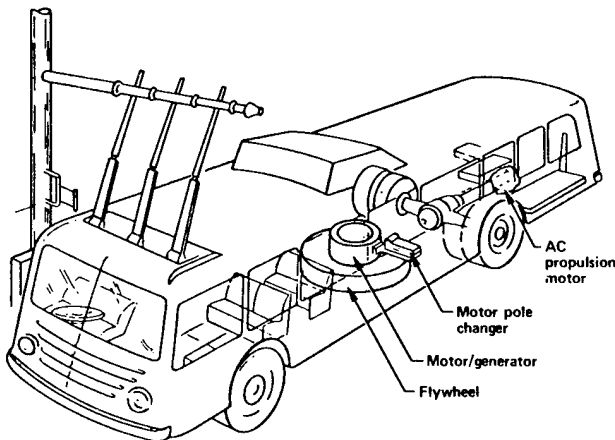


Figure 1:

The first commercial vehicular use for a flywheel was a gyrobus that was used both in Switzerland and the Belgian Congo. Basically, the gyrobus drew electric power from an overhead pole to spin up a flywheel. In turn, the flywheel drove a generator that powered the road wheel motors. The "refuelling" poles were spaced about a half-mile apart, and the bus was required to stop at each pole. The vehicle itself was 35 feet long, weighed 24,000 pounds, and was designed for 35 seated and 35 standing passengers.¹

Dist	Avail and/or Special
A-1	

The amount of mechanical (or kinetic) energy that can be stored in a rotating wheel depends, of course, on its weight and the square of its speed of rotation. To stretch the limits of energy stored, problems of air- and bearing-friction have to be overcome, and new materials tested that would withstand the large centrifugal forces and depreciation of material properties as a result of fatigue from prolonged operation.

Considerable progress has been made in recent years in the design of flywheel applications and of advanced fiber composites and matrix materials to render this method of energy storage safe and cost-effective. One design of interest is the fanned brush that uses long thin fibres of various materials, such as steel wires, fiber glass, and other filaments, that have unusually high-strength properties in the long direction. Other designs are based on concentric rings of strong fiber composites separated by small gaps filled with bonded resilient material. This minimizes radial stress that tends to cause the wheel to fail at high speeds.

The advantages of these "*superflywheels*" for storage of electric energy are that they are 70%-80% efficient and could be placed conveniently close to points of heavy load demand. A proposed design of a large load-leveling flywheel unit is shown in Figure 2.

Clearly, as this field of energy storage is expanding, new and highly sophisticated hybrid systems are starting to evolve in competition with other contemporary techniques: Batteries, compressed air, magnetic and hydrogen-based systems, in addition to perhaps more conventional modes like thermal storage and the load-leveling of hydroelectric power generation.

This preliminary publication of the *Flywheel Bibliography* is meant, therefore, to provide a reasonably up-to-date survey of this specific field of the literature that is rapidly expanding. Figure 3.

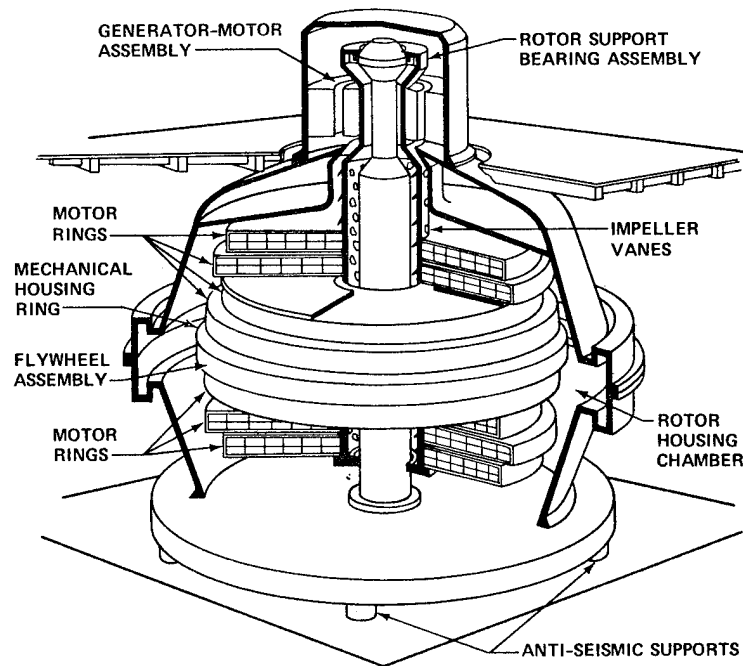


Figure 2:

This peak power unit would store energy from an electric power plant during off-peak hours and would generate energy at times of peak load. The fiber composite flywheel would be about 15 feet in diameter and weigh about 200 tons. It would be coupled to a generator-motor that would function as a motor when the flywheel was being spun up to store energy and as a generator when the system was drawing on the flywheel's stored energy. ¹

Figure 3: Number of Publications Used in the Preliminary Edition of the *Flywheel Bibliography* as a function of Time:

1959	-	1	
1960	-	-	1
1961	-	1	
1962	-	-	
1963	-	5	
1964	-	6	
1965	-	4	16
1966	-	6	
1967	-	14	
1968	-	8	
1969	-	13	
1970	-	21	62
1971	-	28	
1972	-	35	
1973	-	37	
1974	-	90	
1975	-	80	270
1976	-	35 (through July, 1976)	

The publication peaks are shown to occur fortuitously in 1974 and 1975. This is characteristic of most bibliographies. It indicates merely the time lag before relevant publications appear in the computerized data banks of secondary references to the world literature.* We are making provisions to shorten this inadvertent delay when our on-line data banks become operational, as part of the *Integrated Information System*. 8

Detailed Description

The main body of the report consists of two parts:
The *Concordance* and *Main Listing*.

The Concordance, Part-1

The concordance is an alphabetic listing of the following information elements:

- * *Essential expressions from titles*
- * *Authors from single and multiple author lists*
- * *Organizations and corporate authors*
- * *Keywords and Keyphrases*

Non-essential expressions derived by computer from titles were removed. Under each alphabetic listing of terms from the above information elements are five columns, describing each relevant citation from the left:

- * *Chronological date of publication*
- * *Title*
- * *Author(s)*
- * *Category number, as defined by us below*
- * *Citation number which links the Concordance with the main listing.*

* Refer, for example to the "MULTIPHOTON BIBLIOGRAPHY 1970-1976", UCRL-13728

The Main Bibliographic Listing, Part-2

We found it useful to establish six subject categories for the main bibliographic listing. Within each category, citations are shown in chronologically ascending order of their date of publication. Citation numbers which provide the link between the concordance and the main listing provide the main entry to the bibliographic listing and are in ascending order, encompassing all six categories:

<u>CATEGORY</u>	<u>SUBJECT</u>	<u>Citation Number</u>	<u>Number of Citations</u>
I	Properties of Flywheels	1- 59	59
II	Flywheels in Vehicles	60-137	78
III	Flywheels in Utilities	138-209	72
IV	Flywheels in Aircraft & Spacecraft	210-240	31
V	Overview of Energy Resources	241-253	13
VI	Fiber Composite Properties	254-382	129
			382

Each bibliographic citation in the main listing is appropriately categorized by its main subject heading at the top of each page. The citation number at the left is set apart for rapid scanning. Individual descriptive fields in each citation vary from case to case, depending upon the origin of each citation. Only fields containing information are shown. However, more information and data is contained in the computer data bank than that shown in this publication.

Some Aspects of Computerization

Citations for this *Flywheel Bibliography* have been derived from a search of the world literature, employing machine and manual scanning of sources shown in Table-I.

All citations and additional intelligence were keyboarded at LLL from the original documents, mostly government reports. The preliminary

version of the bibliography, as shown here, extends in time only through June, 1976. The more recent publications through December, 1977, will be added for the next addition to be published in April, 1978. Several aspects are noteworthy:

First, the printing of the bibliography represents a snapshot in time generated directly by machine in camera-ready form on a high-resolution camera of the FR-80 devices available at LLL. Standard commands for text manipulation of the MASTER CONTROL Data Base Management System were used to create this bibliography.⁵⁻⁷ Although we find that interactive lookup by computer provides an immediate and up-to-date insight into the state of a particular data base, we value the printed book that can be perused quickly and at liberty, even by those that do not have access to the computer system.

Second, a computer-based data bank lends itself readily to the identification of statistics. Some of these are shown in the tables below. Here we are very mindful that statistics on the number of publications by personal and corporate authors do not necessarily indicate relevance or the quality of the contributions, especially when the statistics are small - as is the case here. However, the interactive information systems, e.g. ERDA/RECON and others, do provide statistics as a byproduct of each search. In this sense we believe it appropriate to share with you some of the observations available to us on this bibliography:

FLYWHEEL PUBLICATIONS BY AUTHOR

D.W. Rabenhorst	16
L.J. Lawson	12
T.R. Schneider	5
A. Cormack	4
D.E. Lapedes	4
J. Meltzer	4
J.E. Notti	4
T.T. Chiao	3
G.L. Dugger	3
R.R. Gilbert	3
S.F. Post	3
H. Schreck	3
<i>etc.</i>	

FIBER COMPOSITES PUBLICATIONS BY AUTHOR

T.T. Chiao	57
E.M. Wu	25
R.M. Christensen	23
M.A. Hamstad	19
R.L. Moore	19
E.S. Jessop	8
R.H. Toland	8
L.S. Penn	5
H.A. Newey	5
L.L. Clements	4
W.G. Gottenberg	4
J.K. Lepper	4
etc.	

FLYWHEEL PUBLICATIONS BY CORPORATIONS

Lawrence Livermore Laboratory	17
Johns Hopkins University	11
Lockheed Missiles & Space Company	5
Electric Power Research Institute	4
Public Service Electric & Gas Company	4
Teldix Luftfahrt-Ausrüstungs G.m.B.H.	4
Aerospace Corporation	3
Hawker Siddeley Dynamics, Ltd.	3
etc.	

Third, we wish to emphasize the human aspects of a properly designed bibliography where the professional contribution of skilled reviewers is invaluable. By adding qualifying information in descriptive and numerical form to each citation of a computer-based data bank, we open a new domain for decision making.

Acknowledgement

The following have worked on this Flywheel Bibliography: *Viktor E. Hampel*, Principal Investigator for the project; *Terrence M. Quick*, Materials scientist and Project Leader; *Eugene E. Henry*, Physicist; *Frederick E. McMurphy*, chemist; *Keith W. Johnson*, physicist; *Barbara J. Mallon*, chemist; *Donna M. Chato*, computer programmer; and *Doris H. Ryon*, computer technician. The MASTER CONTROL program has readied for this production by *Robert W. Kuhn* and *Barbara Flusche*, computer scientists.

The assistance of *William E. Madden* of the LLL Technical Information Department, and the keyboarding by *Adele K. Larson* and her staff are gratefully acknowledged.

Additions, corrections and comments that would affect our future publications by making them useful and by disseminating them to those who need this information should be directed to:

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Table-I: CURRENT AWARENESS SERVICES SEARCHED FOR THIS BIBLIOGRAPHY

1. Engineering Index (Compendex)
Covers the world's significant technical literature and conferences encompassing all engineering disciplines. Covered are 2299 professional and industrial journals, proceedings, special publications, monographs, reports, etc.
2. Nuclear Science Abstracts
Covers the international nuclear science literature. The journals regularly scanned are contained in "Serial Titles Cited in Nuclear Science Abstracts."
3. Chemical Abstract Condensates (Chemcon)
CA Condensates provide a computer readable service which corresponds to Chemical Abstracts. Some 13,000 journals as well as patents from 26 countries, conference proceedings, and government research reports are covered.
4. National Technical Information Service (NTIS)
This data base covers government sponsored research and development reports since 1970.
5. Congressional Information Service Index (CIS Index)
CIS Index covers publications of the United States Congress since 1970.
6. ERDA Energy Data Base (EDB)
EDB contains over 98,000 entries, encompassing all areas of energy-related information.
7. Energy Data Base
Over 5,000 entries in this data base cover the use, generation, distribution, environmental effects, and sources of all forms of energy.
8. ERDA Research Abstracts (ERA)
ERA provides abstracting and indexing service for all scientific and technical reports, journal articles, conference papers and proceedings, etc., originated by ERDA, its Laboratories, energy centers, and contractors.
9. Applied Science and Technology Index
Over 200 English Language periodicals in the field of aeronautics, space science, and related areas are covered in this cumulative subject index.
10. Readers Guide to Periodical Literature
A cumulative author-subject index is provided to approximately 160 periodicals of general interest in the United States.
11. International Aerospace Abstracts
This service provides coverage of the world literature in aeronautics and space science.

Table-I: CURRENT AWARENESS SERVICES SEARCHED FOR THIS BIBLIOGRAPHY (cont.)

12. Scientific and Technical Aerospace Abstracts
Aeronautics, space science, and supporting disciplines are covered. Included are NASA and NASA contractor reports, reports by U.S. government agencies, translations that appear as reports, NASA-owned patents and patent applications, dissertations and theses.
13. Information Services for Mechanical Engineering (ISMEC) Bulletin
The ISMEC Bulletin includes nearly 300 primary publications worldwide, covering all aspects of mechanical engineering, production engineering, and engineering management.
14. Energy Abstracts for Policy Analysis
This service provides abstracting services and indexing of selected non-technological literature, contributing to energy-related analysis and evaluation in areas such as policy, conservation, research and development, economics and sociology, etc. The material is taken from Congressional Committee prints, Federal agency reports, regional and state government reports and documents, news reports, books and conference proceedings.
15. Energy Review
This service reviews selected works on the general subject of energy.

Note: Of the above abstracting and current awareness services the first seven are in use as computer-readable data bases.

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8. *Viktor E. Hampel*, "Decision Making with Interactive Access to Integrated Administrative and Technological Data Bases - The Integrated Information System," AESOP-XVII Meeting, Boston, Mass., September 13-15, 1977, in final preparation for publication in Conference Proceedings.

Part - 1

CONCORDANCE OF SUBJECTS AND AUTHORS

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
CONCORDANCE ON TITLE, AUTHOR, ORGANIZATION AND KEYWORDS

100-MEGAJOULE/500-MEGAWATT SUPERFLYWHEEL			
1973	DESIGN CONSIDERATIONS FOR A 100-MEGAJOULE/500-MEGAWATT SUPERFLYWHEEL	RABENHORST, D. W. / TAYLOR, R. J.	1 26
1000 NMS FLYWHEEL			
1974	A 1000 NMS FLYWHEEL OPTIMISATION STUDY	STANDING, J. M.	1 34
125 MVA POWER			
1974	COMPUTER CONTROLLED 125 MVA POWER SUPPLY FACILITY FOR NUCLEAR FUSION RESEARCH	MIYAHARA, A. / BANNAI, E. / KITANO, Y.	3 158
150 NMS FLYWHEEL			
1974	A 150 NMS FLYWHEEL OPTIMISATION STUDY	STANDING, J. M.	1 35
1975 FLYWHEEL TECHNOLOGY			
1975	1975 FLYWHEEL TECHNOLOGY SYMPOSIUM	ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION, AND LAWRENCE LIVERMORE LABORATORY	1 50
200 MJ FLYWHEEL			
1975	REPETITIVE PLASMA FOCUS POWERED BY A APPROX. 200 MJ FLYWHEEL GENERATOR.	NARDI, V.	3 194
25000 RPM			
1983	TESTING MAGNETO FLYWHEELS AT SPEEDS UP TO 25000 RPM.	MACHY (LOND)	1 2
2XIIB			
1973	MATERIALS EVALUATION FOR 2XIIB MAGNET	CHIAO, T. T./ WALKUP, C. M./NEWBY, H. A.	6 322
AALAND, K.			
1975	IDEAS AND EXPERIMENTS IN MAGNETIC INTERFACING	AALAND, K. / LANE, J. E.	2 132
1976	FERRO-RESONANT CIRCUIT FOR A NEW FLYWHEEL MOTOR GENERATOR	AALAND, K.	1 54
ABSTRACTS			
1975	DESIGN AND APPLICATIONS OF FLYWHEELS (A BIBLIOGRAPHY WITH ABSTRACTS)	LEHMANN, E. J.	1 42
1975	AUTOMOBILE AIR POLLUTION, PART 4. NEW AUTOMOTIVE ENGINES (A BIBLIOGRAPHY WITH ABSTRACTS). PERIOD COVERED: 1970-DEC. 1974.	LEHMANN, E. J.	2 124
1975	DESIGN AND APPLICATIONS OF FLYWHEELS (A BIBLIOGRAPHY WITH ABSTRACTS)	HABERCOM, G. E.	1 46
AC POWER SYSTEMS			
1974	CYCLOCONVERTER-CONTROLLED SYNCHRONOUS MACHINES FOR LOAD COMPENSATION ON AC POWER SYSTEMS	FINLAYSON, P. T. / WASHBURN, D. C.	3 178
AC-DC POWER CONVERSION			
1975	AC/DC POWER CONDITIONING AND CONTROL EQUIPMENT FOR ADVANCED CONVERSION AND STORAGE TECHNOLOGY.	WOOD, P. / PELLY, B. R.	3 195
AC/DC POWER CONDITIONING			
1975	AC/DC POWER CONDITIONING AND CONTROL EQUIPMENT FOR ADVANCED CONVERSION AND STORAGE TECHNOLOGY.	WOOD, P. / PELLY, B. R.	3 195

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1976	AN ACCELERATED TEST FOR PREDICTING THE LIFETIME OF ORGANIC FIBER COMPOSITES	CHIAO, C. C.	6	376

ACCELERATION

1971	DESIGN AND TESTING OF HIGH ENERGY DENSITY FLYWHEELS FOR APPLICATION TO FLYWHEEL HEAT ENGINE HYBRID VEHICLE DRIVES	LAWSON, L. J.	2	79
1971	FLYWHEEL AND FLYWHEEL HEAT ENGINE HYBRID PROPULSION SYSTEMS FOR LOW-EMISSION VEHICLES	DUGGER, G. L./BRANDT, A./GEORGE, J. F./PERINI, L. L.	2	80
1972	HYBRID PROPULSION SYSTEM TRANSMISSION EVALUATION, PHASE I. FINAL REPORT	CORDNER, M. A./GRIMM, D. H.	2	86
1974	SYNTHESIS OF THE BELT OF A DISCRETE BELT VARIATOR	GULIA, N. V. / YUDOVSKII, I. D.	2	104
1974	ALTERNATIVE PRIME MOVERS FOR FUTURE AUTOMOBILES	STERNLICHT, B./THUR, G. M.	2	119

ACHIEVEMENTS AND PROSPECTS

1970	ACHIEVEMENTS AND PROSPECTS IN THE UTILIZATION OF KINETIC ENERGY	GROSU, S. I.	3	146

ACHIEVING HIGH ENERGY

1973	ACHIEVING HIGH ENERGY EFFICIENCY	INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE	3	152

ACOUSTIC EMISSION

1972	ACOUSTIC EMISSION FROM FILAMENT-WOUND PRESSURE BOTTLES	HAMSTAD, M. A.	6	306
1972	ACOUSTIC EMISSION FROM FILAMENT-WOUND PRESSURE BOTTLES	HAMSTAD, M. A.	6	307
1973	ACOUSTIC EMISSION PRODUCED DURING BURST TESTS OF FILAMENT-WOUND BOTTLES	HAMSTAD, M. A./CHIAO, T. T.	6	320
1974	A PHYSICAL MECHANISM FOR THE EARLY ACOUSTIC EMISSION IN AN ORGANIC FIBER/EPOXY PRESSURE VESSEL	HAMSTAD, M. A./CHIAO, T. T.	6	333
1974	ACOUSTIC EMISSION FROM STRESS-RUPTURE AND FATIGUE OF AN ORGANIC FIBER COMPOSITE	HAMSTAD, M. A./CHIAO, T. T.	6	334
1974	ACOUSTIC EMISSION USES IN RESEARCH AND DEVELOPMENT OF COMPOSITE MATERIALS	HAMSTAD, M. A.	6	346

ACOUSTICS

1974	ACOUSTIC EMISSION FROM STRESS-RUPTURE AND FATIGUE OF AN ORGANIC FIBER COMPOSITE	HAMSTAD, M. A./CHIAO, T. T.	6	334
1974	TENSILE PROPERTIES OF AN ULTRA-HIGH-STRENGTH GRAPHITE FIBER AN EPOXY MATRIX	CHIAO, T. T./ HAMSTAD, M. A./JESSOP, E. S.	6	337

ACT-I CARS

1976	FLYWHEELS: ENERGY-SAVING WAY TO GO	ENVIRONMENTAL SCIENCE AND TECHNOLOGY	2	137

ACTIVE STABILIZATION

1975	ACTIVE STABILIZATION OF THE ROTARY MOTION OF A SOLID BODY	SAKIAN, L. S.	1	41

ACTUATION FUNCTIONS

1986	EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS FOR AIRCRAFT ACTUATION FUNCTIONS	NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.	2	65
1987	EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS FOR AIRCRAFT ACTUATION FUNCTIONS	NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.	4	212
1987	EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS FOR AIRCRAFT ACTUATION FUNCTIONS	NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.	4	213
1987	EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS FOR AIRCRAFT ACTUATION FUNCTIONS	NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.	4	214
1987	EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS FOR AIRCRAFT ACTUATION FUNCTIONS	NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.	4	215
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CONCORDANCE ON TITLE, AUTHOR, ORGANIZATION AND KEYWORDS

ADAMS, L. R.			
1972	APPLICATION OF ISOTENSOID FLYWHEELS TO SPACECRAFT ENERGY AND ANGULAR MOMENTUM STORAGE	ADAMS, L. R.	4 224
ADVANCED COMPOSITE			
1974	A MODERATE-TEMPERATURE-CURABLE EPOXY FOR ADVANCED COMPOSITE	CHIAO, T. T./ JESSOP, E. S./NEWBY, H. A.	6 345
ADVANCED CONCEPTS			
1974	ASSESSMENT OF ADVANCED CONCEPTS IN ENERGY STORAGE AND THEIR APPLICATION ON ELECTRIC UTILITY SYSTEMS	FERNANDES, R. A. / GILDERSLEEVE, O. D. / SCHNEIDER, T. R.	3 176
ADVANCED CONVERSION			
1975	AC/DC POWER CONDITIONING AND CONTROL EQUIPMENT FOR ADVANCED CONVERSION AND STORAGE TECHNOLOGY.	WOOD, P. / PELLY, B. R.	3 195
ADVANCED FIBER COMPOSITE			
1972	EXPERIMENTAL INVESTIGATION OF FRACTURE IN AN ADVANCED FIBER COMPOSITE	KONISH, H. J. / SWEDLOW, J. L. / CRUSE, T. A.	6 294
ADVANCED FIBER COMPOSITES			
1974	A ROOM TEMPERATURE-CURABLE EPOXY FOR ADVANCED FIBER COMPOSITES	CHIAO, T. T./MOORE, R. L.	6 335
ADVANCED SYSTEMS DIVISION			
1975	FQSSIL FUEL AND ADVANCED SYSTEMS DIVISION.RESEARCH PROGRESS REPORT FF-3	ELECTRIC POWER RESEARCH INST.	3 192
ADVANCED TECHNOLOGIES			
1974	ENERGY STORAGE.(11):.DEVELOPING ADVANCED TECHNOLOGIES	ROBINSON,A.L.	3 166
AEROSPACE APPLICATIONS			
1963	MAGNETIC BEARINGS FOR AEROSPACE APPLICATIONS	EDGAR, R. F. / ET AL.	4 211
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1974	CURRENT STATUS OF ALTERNATIVE AUTOMOTIVE POWER SYSTEMS AND FUELS	AEROSPACE CORP.	2 113
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1959	COMPARISON OF ELECTRICALLY RUN UP FLYWHEEL (DC MOTOR) WITH TURBINE, HOT GAS MOTOR AND OTHER SYSTEMS FOR MINUTEMAN APPLICATION.	FRUKTOW, N. N.	2 60
1970	MODIFICATION OF DC MOTOR WITH MAGNETICALLY SUSPENDED ROTOR	CAMBRIDGE THERMIONIC CORP., MASS.	1 11
1973	APPLICATION OF TWO-PHASE DC CHOPPER MOTOR DRIVE	REIMERS, E.	2 95
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1973	DESIGN CONSIDERATIONS FOR A 100-MEGAJOULE/500-MEGAWATT SUPERFLYWHEEL	RABENHORST, D. W. / TAYLOR, R. J.	1 26
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AUTHORS.....: RABENHORST, D. W. / TAYLOR, R. J.

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ORGANIZATION: SANDIA LABS.
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AUTHORS.....: RABENHORST, D. W.
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RESEARCH
ADDRESS.....: (J.H.U.) SILVER SPRING, MD. (O.N.R.) ARLINGTON, VA.
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ADDRESS.....: PETERBOROUGH, ENGLAND

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ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
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AUTHORS.....: BLAKE, A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCRL-51978
CONTRACT #...: W-7405-ENG-48
PUBL. DATE...: DEC 16 1975
TYPE.....: REPORT
PUBLISHER....: LLL
KEYWORDS.....: COMPOSITE MATERIALS/ CONFIGURATION/ DESIGN/ ENERGY STORAGE/
FILAMENTS/ FLYWHEELS/ RINGS/ STRESSES
- 54 TITLE.....: FERRO-RESONANT CIRCUIT FOR A NEW FLYWHEEL MOTOR GENERATOR
AUTHORS.....: AALAND, K.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCRL-77508-ABSTRACT
PUBL. DATE...: 1976
- 55 TITLE.....: FLYWHEELS, A REPORT BIBLIOGRAPHY
AUTHORS.....: DEFENSE DOCUMENTATION CENTER
ORGANIZATION: DEFENSE DOCUMENTATION CENTER
ADDRESS.....: ALEXANDRIA, VA.
SOURCE.....: SCN-CF022D
PUBL. DATE...: FEB 18 1976
- 56 TITLE.....: FLYWHEELS, A SELECTED BIBLIOGRAPHY
AUTHORS.....: MADDEN, W. E.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

I PROPERTIES OF FLYWHEELS

- 56 TITLE.....: FLYWHEELS, A SELECTED BIBLIOGRAPHY (CONTD.)
SOURCE.....: LLL-TID-BIB-1093
PUBL. DATE...: MAR 16 1976
- 57 TITLE.....: FIBER COMPOSITE PROGRAM FOR FLYWHEEL APPLICATIONS
AUTHORS.....: STONE, R. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA, 94550
SOURCE.....: UCRL-50033-76-1
PUBL. DATE...: MAY 1976
- 58 TITLE.....: RESEARCH LEADING TO THE PRODUCTION AND EARLY USE OF NUMERIC
DATA BANKS OF MATERIAL PROPERTIES AND SYSTEM ANALYSES
AUTHORS.....: HENRY, E. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCRL-50038-76-1,-2,-3,-4,-5
PUBL. DATE...: MAY 14 1976
- 59 TITLE.....: COMPOSITE FIBER FLYWHEEL FOR ENERGY STORAGE
AUTHORS.....: RINDE, J. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCRL-78085
PUBL. DATE...: JUN 04 1976

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 60 TITLE.....: COMPARISON OF ELECTRICALLY RUN UP FLYWHEEL (DC MOTOR) WITH
TURBINE, HOT GAS MOTOR AND OTHER SYSTEMS FOR MINUTEMAN
APPLICATION.
AUTHORS.....: FRUKTOW, N. N.
ORGANIZATION: TRW SPACE TECHNOLOGY LABS.
ADDRESS.....: LOS ANGELES, CA.
SOURCE.....: TN-59-0000-00266
PUBL. DATE...: MAY 1959
TYPE.....: REPORT

KEYWORDS.....: COMPARATIVE EVALUATIONS/ FLYWHEELS/ MISSILES
- 61 TITLE.....: ON-BOARD ENERGY STORAGE IN RAIL RAPID TRANSIT
AUTHORS.....: MARLOWE, E. W.
ORGANIZATION: DEVELOPMENT LABS., INC.
ADDRESS.....: SANTA MONICA, CAL.
SOURCE.....: TN-64-23
PUBL. DATE...: JUN 1964
TYPE.....: REPORT
PUBLISHER....: DEVELOPMENT LABS., INC.

KEYWORDS.....: CONTROL SYSTEMS/ DESIGN/ ENERGY STORAGE/ FLYWHEELS/
MECHANICAL TRANSMISSIONS/ RAPID TRANSIT SYSTEMS/ TRAINS
- 62 TITLE.....: GENERAL THEORETICAL ANALYSIS AND EVALUATION OF AN
EXPERIMENTAL MODEL OF A CONSTANT-SPEED FLYWHEEL POWER SOURCE
AUTHORS.....: MATTHEWS, L. E. / EVERETT, W. D. / BINDER, R.
ORGANIZATION: U. S. NAVAL MISSILE CENTER
ADDRESS.....: POINT MUGU, CA.
SOURCE.....: TECHNICAL MEMORANDUM NO. NMC-TM-647, JUNE 25, 1964.
PUBL. DATE...: JUN 25 1964
TYPE.....: REPORT

KEYWORDS.....: FLYWHEELS/VEHICLES/FLYWHEEL-LIQUID FILLED

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 63 TITLE.....: TRANSFER LINE FOR SHORT RUNS
 AUTHORS.....: AM. MACH.

 SOURCE.....: AM. MACH. 109, P 83, AUG 16, 1965
 PUBL. DATE...: AUG 16 1965
- 64 TITLE.....: SPECIFICATIONS FOR SHIPBOARD STORED ENERGY CATAPULT
 FLYWHEEL PACKAGE
 AUTHORS.....: NAVAL ORDNANCE STATION, FOREST PARK, ILL.

 SOURCE.....: AD-876 244L, IDEP 347.55.00.00-Y7-05S
 PUBL. DATE...: APR 14 1966
- 65 TITLE.....: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS
 FOR AIRCRAFT ACTUATION FUNCTIONS
 AUTHORS.....: NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.

 SOURCE.....: NA-66-1142-1, QUARTERLY TECH. RPT. NO. 1, 1 JUL-30SEP 1966
 CONTRACT #...: AF33(615)-5173
 PUBL. DATE...: OCT 12 1966
- 66 TITLE.....: FLYWHEEL ENERGY STORAGE SYSTEMS FOR TRANSIT BUSES
 AUTHORS.....: WILCOX, J. P.

 ORGANIZATION: BATTELLE LABS.
 ADDRESS.....: COLUMBUS, OHIO

 PUBL. DATE...: OCT 1967
 TYPE.....: REPORT
 PUBLISHER....: BATTELLE COLUMBUS LABS.

 KEYWORDS.....: BUSES/ ECONOMICS/ ENERGY STORAGE/ FEASIBILITY STUDIES/
 FLYWHEELS/ RAPID TRANSIT SYSTEMS/ REGENERATIVE BRAKING/
 TRANSIENTS

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 67 TITLE.....: FLYWHEEL INERTIA ACTUATES AUTOMATIC ANTI-SKID DEVICE
AUTHORS.....: PRODUCT ENG.

SOURCE.....: PRODUCT ENG. 38, P 59, DEC 18, 1967
PUBL. DATE...: DEC 18 1967
- 68 TITLE.....: PRIMARY ENERGY STORAGE AND THE SUPER FLYWHEEL
AUTHORS.....: RABENHORST, D. W.

ORGANIZATION: APPLIED PHYSICS LAB., JOHNS HOPKINS UNIV.
ADDRESS.....: SILVER SPRING, MD.

SOURCE.....: AD-697906; APL-TG-1081
CONTRACT #...: NOW-62-0604-C
PUBL. DATE...: SEP 1969

KEYWORDS.....: FLYWHEEL/FLYWHEEL DESIGN/ENERGY STORAGE/SUPERFLYWHEEL
- 69 TITLE.....: STUDY OF UNCONVENTIONAL THERMAL, MECHANICAL, AND NUCLEAR LOW-
POLLUTION-POTENTIAL POWER SOURCES FOR URBAN VEHICLES

AUTHORS.....: HOESS, J.A./CHEANEY, E.S./CRESWICK, F.A./TRAYSER, D.A./FISCHER,
R.D./TIMBERLAKE, A.B./BASHAM, S.J./HERRIDGE, J.T. /WILCOX, J.
P.

ORGANIZATION: BATTELLE COLUMBUS LABS.
ADDRESS.....: OHIO (USA)

SOURCE.....: APTD--69-51
CONTRACT #...: PH 86-67-109
PUBL. DATE...: OCT 1969
TYPE.....: PB--192321

CATEGORY.....: ENERGY CONVERSION HEAT SOURCES

KEYWORDS.....: AMMONIA / AUTOMOBILES / AUTOMOTIVE FUELS / COMPARATIVE
EVALUATIONS/DIRECT ENERGY CONVERTERS/ENGINES/ FEASIBILITY
STUDIES / FLYWHEELS /GAS TURBINES/HYBRID SYSTEMS/HYDROGEN
FUELS/LITHIUM FLUORIDES/MECHANICAL TRANSMISSIONS / METHANE
/MHD GENERATORS/ML-1 REACTOR/MOBILE REACTORS/PHOTOVOLTAIC
CELLS/PROPANE/PROPULSION/RADIOISOTOPE BATTERIES
/RADIOISOTOPE HEAT SOURCES/RANKINE CYCLE ENGINES/SNAP 50
REACTOR/SNAP 8 REACTOR/STIRLING ENGINES/THERMIONIC
CONVERTERS /THERMOELECTRIC GENERATORS/

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 70 TITLE.....: STUDY OF UNCONVENTIONAL THERMAL, MECHANICAL, AND NUCLEAR LOW-
POLLUTION-POTENTIAL POWER SOURCES FOR URBAN VEHICLES
AUTHORS.....: BATTELLE COLUMBUS LABS.
ORGANIZATION: BATTELLE COLUMBUS LABS.
ADDRESS.....: OHIO (USA)
SOURCE.....: NP--20359
CONTRACT #...: PH 86-67-109
PUBL. DATE...: OCT 1969
CATEGORY....: ENERGY CONVERSION ENERGY SOURCES REACTORS-POWER SNAP
TECHNOLOGY
KEYWORDS....: AIR FILTERS/AUTOMOBILES/AUTOMOTIVE FUELS/COMBUSTION
CHAMBERS/COMPARATIVE EVALUATIONS/COST/DESIGN/ENERGY
STORAGE/ EXHAUST GASES / FEASIBILITY STUDIES /
FLYWHEELS/FUEL CONSUMPTION/GAS TURBINES/HEAT
ENGINES/HYDRODYNAMICS/MECHANICAL TRANSMISSIONS / MHD
GENERATORS /ML-1 REACTOR/MOBILE REACTORS/NUCLEAR
POWER/PERFORMANCE/POWER TRANSMISSION/ PROPULSION /
RADIOISOTOPE BATTERIES / RADIOISOTOPE HEAT SOURCES/RANKINE
CYCLE ENGINES/REVIEWS/SNAP REACTORS / SNAP 8
REACTOR/SPRINGS/STIRLING ENGINES/THERMIONIC
CONVERTERS/THERMOELECTRIC GENERATORS/USES/ WORKING FLUIDS/
- 71 TITLE.....: WIND UP CAR
AUTHORS.....: HOHENEMSER, K. / MCCAULL, J.
SOURCE.....: ENVIRON 12, P 14, JUN 1970.
PUBL. DATE...: JUN 1970
- 72 TITLE.....: HIGH-SPEED ENERGY WHEEL OFFERS TROLLEYS PORTABLE ELECTRICITY
AUTHORS.....: PRODUCT ENGINEERING
SOURCE.....: PROD. ENG. 41:80, JULY 20, 1970
PUBL. DATE...: JUL 20 1970

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 73 TITLE.....: SUPER FLYWHEEL TO POWER ZERO-EMISSION CAR
AUTHORS.....: ARMAGNAC, A. P.

SOURCE.....: POPULAR SCIENCE 197, P 41, AUG 1970.
PUBL. DATE...: AUG 1970
- 74 TITLE.....: CUT SUBWAY POWER COSTS
AUTHORS.....: NEW YORK CITY METROPOLITAN TRANSPORTATION AUTHORITY

SOURCE.....: AM. CITY, 85, P 98, SEP 1970.
PUBL. DATE...: SEP 1970
- 75 TITLE.....: SURVEY OF PROPULSION SYSTEMS FOR LOW EMISSION URBAN
VEHICLES, FINAL REPORT.
AUTHORS.....: FRAIZE, W. E. / LAY, R. K.
ORGANIZATION: MITRE CORP.
ADDRESS.....: MCLEAN, VA.
CONTRACT #...: F19628-68-C-0365
PUBL. DATE...: SEP 1970
TYPE.....: REPORT

KEYWORDS.....: AIR POLLUTION/ AUTOMOBILES/ AUTOMOTIVE FUELS/ ELECTRIC-
POWERED VEHICLES/ ENGINES/ EXHAUST GASES/ FLYWHEELS/ FOSSIL
FUELS/ FUEL CELLS/ HEAT ENGINES/ INTERNAL COMBUSTION
ENGINES/ RANKINE CYCLE ENGINES/ REVIEWS/ URBAN AREAS
- 76 TITLE.....: SUPER FLYWHEEL CONFIGURATIONS FORM HEART OF MECHANICAL-
POWERED DRIVES
AUTHORS.....: CHIRONIS, N. P.

SOURCE.....: PRODUCT ENG. 42, P 54, APR 12, 1971.
PUBL. DATE...: APR 12 1971

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 77 TITLE.....: FLYWHEEL FEASIBILITY STUDY AND DEMONSTRATION.FINAL REPORT
AUTHORS.....: GILBERT, R. R./HARVEY,J.R./HEUER,G.E./LAWSON, L. J.
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO.
ADDRESS.....: SUNNYVALE,CALIF.(USA)
SOURCE.....: (D--007915)=(D007915) STANDARDS/URBAN AREAS/VEHICLES/AIR
POLLUTION/FLYWHEELS/HYBRID
PUBL. DATE...: APR 30 1971

CATEGORY.....: ENERGY CONVERSION
KEYWORDS.....: ENERGY STORAGE/FEASIBILITY STUDIES/PERFORMANCE TESTING
- 78 TITLE.....: EVALUATION OF HYBRID HEAT ENGINE/ELECTRIC SYSTEMS FOR LOW
EXHAUST EMISSION POTENTIAL IN AUTOMOTIVE APPLICATIONS
AUTHORS.....: LAPEDES,D.E./MELTZER,J.

SOURCE.....: SAE, INTERSOCIETY ENERGY CONVERSION ENG CONF, PAP 719151
PUBL. DATE...: AUG 03 1971

LOCATION.....: BOSTON, MASS.
DATE.....: AUG 3-5, 1971
- 79 TITLE.....: DESIGN AND TESTING OF HIGH ENERGY DENSITY FLYWHEELS FOR
APPLICATION TO FLYWHEEL HEAT ENGINE HYBRID VEHICLE DRIVES
AUTHORS.....: LAWSON, L. J.

SOURCE.....: 1971 INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE
PAPER 719150, P. 1142 BOSTON, MA 3 AUG 1971
PUBL. DATE...: AUG 03 1971
PUBLISHER...: SOCIETY OF AUTOMOTIVE ENGINEERS,INC. NEW YORK

LOCATION.....: BOSTON,MA
DATE.....: 3 AUG 1971

KEYWORDS.....: ACCELERATION / AUTOMOBILES / DESIGN /ENERGY STORAGE/EXHAUST
GASES/FLYWHEELS/GEOMETRY/HEAT ENGINES/HYBRID
SYSTEMS/MATERIALS/PERFORMANCE TESTING/POWER/
VEHICLES/ENERGY STORAGE/FLYWHEELS/GEOMETRY/HYBRID SYSTEMS/
PERFORMANCE TESTING/POWER

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 80 TITLE.....: FLYWHEEL AND FLYWHEEL HEAT ENGINE HYBRID PROPULSION SYSTEMS
FOR LOW-EMISSION VEHICLES
AUTHORS.....: DUGGER, G. L./BRANDT, A./GEORGE, J.F./PERINI, L.L.
ORGANIZATION: JOHNS HOPKINS UNIV.
ADDRESS.....: BALTIMORE
SOURCE.....: PAPER 719149, P. 1126. 1971 INTERSOCIETY ENERGY CONVERSION
ENGINEERING CONFERENCE BOSTON, MA 3 AUG 1971
PUBL. DATE...: AUG 03 1971
PUBLISHER....: SOCIETY OF AUTOMOTIVE ENGINEERS, INC. NEW YORK
LOCATION.....: BOSTON, MA
DATE.....: 3 AUG 1971
KEYWORDS.....: ACCELERATION / AUTOMOBILES / BUSES / DIESEL ENGINES/ENERGY
STORAGE/EXHAUST GASES/FLYWHEELS/FUEL CONSUMPTION/GAS
TURBINES/HEAT ENGINES/HYBRID SYSTEMS/MATERIALS/SPARK
IGNITION ENGINES/TESTING/TRUCKS/
ACCELERATION/VEHICLES/HYBRID SYSTEMS/ENERGY
STORAGE/FLYWHEELS/ FUEL CONSUMPTION/HEAT
ENGINES/MATERIALS/TESTING/LOW EMISSIONS
- 81 TITLE.....: POTENTIAL APPLICATIONS FOR THE SUPERFLYWHEEL
AUTHORS.....: RABENHORST, D. W.
ORGANIZATION: JOHNS HOPKINS UNIV.
ADDRESS.....: BALTIMORE
SOURCE.....: 1971 INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE
PAPER 719148, .P.1118 BOSTON, MA 3 AUG 1971
PUBL. DATE...: AUG 03 1971
PUBLISHER....: SOCIETY OF AUTOMOTIVE ENGINEERS, INC. NEW YORK
LOCATION.....: BOSTON, MA
DATE.....: 3 AUG 1971
KEYWORDS.....: AIRCRAFT/COST/ENERGY
STORAGE/FLYWHEELS/NOISE/PERFORMANCE/POWER SUPPLIES/SPACE
VEHICLES/TOOLS/TRANSPORTATION SYSTEMS /USES/VEHICLES/
FLYWHEEL/SUPER FLYWHEEL/VEHICLES/TOOLS/POWER SUPPLIES/LOW
EMISSION
- 82 TITLE.....: FEASIBILITY ANALYSIS OF THE TRANSMISSION FOR A FLYWHEEL
HEAT ENGINE HYBRID PROPULSION SYSTEM
AUTHORS.....: MECHANICAL TECHNOLOGY, INC.

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 82 TITLE.....: FEASIBILITY ANALYSIS OF THE TRANSMISSION FOR A FLYWHEEL (CONTD.)
ORGANIZATION: MECHANICAL TECHNOLOGY, INC.
ADDRESS.....: LATHAM, N.Y. (USA)

SOURCE.....: MTI-71TR75 APTD-1181
CONTRACT #...: EPA 68-04-0033
PUBL. DATE...: NOV 1971

CATEGORY.....: ENERGY CONVERSION

KEYWORDS.....: AUTOMOBILES / COMPUTER
CALCULATIONS/CONTROL/COST/DESIGN/FEASIBILITY
STUDIES/FLYWHEELS/HEAT ENGINES/HYBRID SYSTEMS/MECHANICAL
TRANSMISSIONS/PERFORMANCE/PROPULSION/SAFETY/SIMULATION/
- 83 TITLE.....: PROCEEDINGS SECOND INTERNATIONAL ELECTRIC VEHICLE SYMPOSIUM

ORGANIZATION: ELECTRIC VEHICLE COUNCIL
ADDRESS.....: NEW YORK

PUBL. DATE...: NOV 08 1971
TYPE.....: CONF. PROCEEDINGS
PUBLISHER...: ELECTR. VEHICLE COUNCIL

CONFERENCE...: SECOND INTERNATIONAL ELECTRIC VEHICLE SYMPOSIUM
LOCATION.....: ATLANTIC CITY, N.J.
DATE.....: 8-10 NOV., 1971

KEYWORDS.....: AIR POLLUTION/ AUTOMOBILES/ ELECTRIC BATTERIES/ ELECTRIC-
POWERED VEHICLES/ FLYWHEELS/ HYBRID ELECTRIC-POWERED
VEHICLES/ MEETINGS/ NEW JERSEY/ RESEARCH PROGRAMS/
SEMICONDUCTOR MATERIALS/ TRAINS
- 84 TITLE.....: ELECTRIC ROAD VEHICLE
AUTHORS.....: CALVERT, W.L.

SOURCE.....: (DEC. 26, 1967)=(- FILED DATE DEC 23, 1967)
PUBL. DATE...: NOV 24 1971
TYPE.....: PATENT
ASSIGNED.....: UNION CARBIDE CORP.

KEYWORDS.....: FLYWHEELS/HYBRID/BATTERIES/ELECTRIC GENERATORS/ENERGY
STORAGE/ VEHICLES

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 85 TITLE.....: LIFT FOR THE AUTO: ENGINE-FLYWHEEL HYBRIDS
AUTHORS.....: MCCAULL, J.

SOURCE.....: ENVIRON 13, P 35, DEC 1971.
PUBL. DATE...: DEC 1971
- 86 TITLE.....: HYBRID PROPULSION SYSTEM TRANSMISSION EVALUATION, PHASE I.
FINAL REPORT
AUTHORS.....: CORDNER, M.A./GRIMM, D.H.
ORGANIZATION: SUNDSTRAND AVIATION
ADDRESS.....: ROCKFORD, ILL. (USA)

SOURCE.....: APTD--1121 PB--210-057
CONTRACT #...: 68-04-0034
PUBL. DATE...: FEB 25 1972

CATEGORY.....: ENERGY CONVERSION
KEYWORDS.....: ACCELERATION / AUTOMOBILES/COMPARATIVE EVALUATIONS/COMPUTER
CALCULATIONS/CONFIGURATION/CONTROL SYSTEMS/COST/DESIGN/
FEASIBILITY STUDIES / FEDERAL DRIVING CYCLE /
FLYWHEELS/FUEL CONSUMPTION/HEAT ENGINES/HYBRID
SYSTEMS/MECHANICAL
TRANSMISSIONS/OPTIMIZATION/PERFORMANCE/SIMULATION/
- 87 TITLE.....: FLYWHEEL DRIVE SYSTEMS STUDY.FINAL REPORT
AUTHORS.....: GILBERT, R. R./HEUER, G.E./JACOBSEN, E. H./KUHN, E.B./LAWSON,
L. J./WADA, W. T.
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO., SUNNYVALE, CALIF. (USA)

SOURCE.....: APTD-1182, PB-213342 9 LMSC-D246393
CONTRACT #...: 68-04-0048
PUBL. DATE...: JUL 31 1972

CATEGORY.....: ENERGY CONVERSION
KEYWORDS.....: AUTOMOBILES / DESIGN/ENERGY STORAGE/EXHAUST
GASES/FEASIBILITY STUDIES/FLYWHEELS/HYBRID
SYSTEMS/MECHANICAL TRANSMISSIONS/PROPULSION/SAFETY/USES/

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 88 TITLE.....: INERTIAL ENERGY STORAGE APPARATUS AND SYSTEM FOR UTILIZING
THE SAME
AUTHORS.....: POST, R. F. / POST, S. F.
SOURCE.....: U. S. PATENT 3,683,216, AUG. 8, 1972.
PUBL. DATE...: AUG 08 1972
TYPE.....: PATENT
KEYWORDS.....: FLYWHEELS/VEHICLES/FLYWHEEL DESIGN
- 89 TITLE.....: APPLICATION OF KINETIC ENERGY PROPULSION TO MASS
TRANSPORTATION
AUTHORS.....: LAWSON, L. J.
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO.
SOURCE.....: SAE PAPER 720681
PUBL. DATE...: AUG 21 1972
PUBLISHER....: SAE, NEW YORK
CONFERENCE...: SOCIETY OF AUTOMOTIVE ENGINEERS, NATIONAL WEST COAST MEETING
LOCATION.....: SAN FRANCISCO, CA.
DATE.....: 21-24 AUG 1972
KEYWORDS.....: FLYWHEELS/VEHICLES/ENVIRONMENT/SAN FRANCISCO BUS
- 90 TITLE.....: TWO NEW WEAPONS AGAINST AUTOMOTIVE AIR POLLUTION: THE
HYDROSTATIC DRIVE AND THE FLYWHEEL-ELECTRIC LDV.
AUTHORS.....: WHITLAW, R. L.
ORGANIZATION: VA. POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG
SOURCE.....: ASME PAPER N 72-WA/APC-5
PUBL. DATE...: NOV 26 1972
DATE.....: NOV. 26-30, 1972
- 91 TITLE.....: HYBRID ELECTRIC PROPULSION UTILIZING RECONNECTIBLE MOTOR
WINDINGS IN WHEELS
AUTHORS.....: REIMERS, E.

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 91 TITLE.....: HYBRID ELECTRIC PROPULSION UTILIZING RECONNECTIBLE MOTOR (CONTD.)
SOURCE.....: 8TH INTERSOC. ENERGY CONVERSION ENG. CONF., PAPER 739116
PUBL. DATE...: 1973
TYPE.....: CONFERENCE PAPER

KEYWORDS....: FLYWHEELS/ENERGY STORAGE/VEHICLES/FOUR-WHEEL
DRIVE/HYBRID/ECONOMICS

- 92 TITLE.....: ELECTRIC VEHICLE HYBRID POWER TRAIN
AUTHORS.....: KUGLER, G. C.
ORGANIZATION: ESB, INC.
SOURCE.....: INTERNATIONAL AUTOMOTIVE ENGINEERING CONGRESS, DETROIT,
MICH. PAPER 730254
PUBL. DATE...: JAN 08 1973
TYPE.....: CONF. PAPER
PUBLISHER....: SOCIETY OF AUTOMOTIVE ENGINEERS, INC.
CONFERENCE...: INTERNATIONAL AUTOMOTIVE ENGINEERING CONGRESS, DETROIT,
MICH.
LOCATION.....: NEW YORK
DATE.....: 8-12 JAN 1973
KEYWORDS....: FLYWHEELS/HYBRID/ELECTRIC MOTORS/ENERGY
STORAGE/REGENERATIVE BRAKING/VEHICLES

- 93 TITLE.....: FLYWHEEL-ELECTRIC SYSTEM FOR LOCAL-DUTY VEHICLES
AUTHORS.....: AUTOMOTIVE ENG.
SOURCE.....: AUTOMOTIVE ENG. 81, P 11, FEB 1973.
PUBL. DATE...: FEB 1973

- 94 TITLE.....: IS THERE A FLYWHEEL IN YOUR FUTURE
AUTHORS.....: LAWSON, L. J.
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO.
SOURCE.....: SAE SPEC. PUBL. SP-379, MAR 1973, PAP 730621, P 48
PUBL. DATE...: MAR 1973

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 94 TITLE.....: IS THERE A FLYWHEEL IN YOUR FUTURE (CONTD.)
KEYWORDS.....: FLYWHEELS/HYBRID/VEHICLES/ENERGY STORAGE/HEAT ENGINE/LOW
POLLUTION
- 95 TITLE.....: APPLICATION OF TWO-PHASE DC CHOPPER MOTOR DRIVE
AUTHORS.....: REIMERS, E.

SOURCE.....: IEEE TRANS. IND. APPLICATIONS 9, 285 (MAY 1973)
PUBL. DATE...: MAY 1973

KEYWORDS.....: FLYWHEELS/VEHICLES/HYBRID DRIVE/DC CHOPPER MOTOR
- 96 TITLE.....: INERTIAL ENERGY STORAGE APPARATUS
AUTHORS.....: POST, S. F.

SOURCE.....: U. S. PATENT 3,741,034, JUNE 26, 1973.
PUBL. DATE...: JUN 26 1973
TYPE.....: PATENT

KEYWORDS.....: FLYWHEELS/VEHICLES/FLYWHEEL DESIGN
- 97 TITLE.....: HYBRID CAR: PART-TIME ENGINE + PART-TIME FLYWHEEL = FULL
TIME TRANSPORTATION
AUTHORS.....: LINDSLEY, E. F.

SOURCE.....: POPULAR SCIENCE, AUG. 1973, P. 68.
PUBL. DATE...: AUG 1973
TYPE.....: PERIODICAL

KEYWORDS.....: FLYWHEELS/FLYWHEEL TRANSAXLE/VEHICLES/REGENERATIVE
BRAKING/ENERGY STORAGE

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 98 TITLE.....: KINETIC ENERGY STORAGE: A 'NEW' PROPULSION ALTERNATIVE FOR
MASS TRANSPORTATION
AUTHORS.....: LAWSON, L. J.
SOURCE.....: PRESENTED AT ASME INTERSOCIETY CONFERENCE ON TRANSPORTATION
DENVER, CO, SEPT. 1973.
PUBL. DATE...: SEP 1973
TYPE.....: PRESENTED PAPER
- 99 TITLE.....: STORED ENERGY IN A SPINNING DISK COULD ALLEVIATE THE ENERGY
CRISIS
AUTHORS.....: PRODUCT ENGINEERING
SOURCE.....: PRODUCT ENG. 44, 27 (OCT. 1973)
PUBL. DATE...: OCT 1973
KEYWORDS.....: FLYWHEELS/ENERGY/CONSERVATION/VEHICLES
- 100 TITLE.....: FLYWHEEL ENERGY PROPULSION AND THE ELECTRIC VEHICLE
AUTHORS.....: WEBER, R. / MENKES, S.
ORGANIZATION: CITY COLLEGE OF NEW YORK, DEPT. OF MECHANICAL ENGINEERING
SOURCE.....: PROC. 3RD INT. ELECTR. VEH. SYMP. AND EXPO., WASH., D.C. FEB.
19-21, 1974. PAPER 7458.
PUBL. DATE...: 1974
TYPE.....: REPORT
KEYWORDS.....: FLYWHEELS/VEHICLES/HYBRID VEHICLES/MAGNETIC BEARINGS
- 101 TITLE.....: ENERGY CONSERVATION FACTORS FOR A HIGH-EFFICIENCY ELECTRIC-
DRIVE AUTOMOBILE
AUTHORS.....: POST, R.F.
ADDRESS.....: WALNUT CREEK, CA.
SOURCE.....: SPEECH

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II FLYWHEELS IN VEHICLES

- 101 TITLE.....: ENERGY CONSERVATION FACTORS FOR A HIGH-EFFICIENCY ELECTRIC- (CONTD.)
PUBL. DATE...: 1974
TYPE.....: SPEECH OR PRESENTATION

KEYWORDS.....: FLYWHEELS/HYBRID VEHICLES/ENERGY STORAGE
- 102 TITLE.....: EMISSION CHARACTERISTICS OF A PRIME MOVER FOR HYBRID
VEHICLE USE

AUTHORS.....: ALLSUP, J.R./FLEMING, R.D.

ORGANIZATION: BUREAU OF MINES, BARTLESVILLE ENERGY RESEARCH CENTER
ADDRESS.....: BARTLESVILLE, OKLA. (USA)

SOURCE.....: BM-RI--7988
PUBL. DATE...: 1974

CATEGORY.....: ENERGY CONVERSION ENVIRONMENTAL STUDIES

KEYWORDS.....: AUTOMOBILES / CARBON MONOXIDE/CATALYTIC
CONVERTERS/DYNAMOMETERS/EXHAUST GASES/FLYWHEELS/FUEL
SYSTEMS/HYBRID ELECTRIC-POWERED VEHICLES/HYBRID
SYSTEMS/HYDROCARBONS/NITROGEN OXIDES/SPARK IGNITION ENGINES/
- 103 TITLE.....: SAFETY REVIEW OF THE KINETIC ENERGY WHEEL (KEW) SYSTEM FOR
BUS APPLICATION

AUTHORS.....: NATIONAL ACADEMY OF SCIENCES

ORGANIZATION: NATIONAL ACADEMY OF SCIENCES
ADDRESS.....: WASHINGTON, DC

PUBL. DATE...: 1974

KEYWORDS.....: BUSES /ELECTRIC-POWERED
VEHICLES/FLYWHEELS/HAZARDS/INSPECTION/MATERIALS/NONDESTRUCTIVE
TESTING/SAFETY / SAFETY ENGINEERING/STRESS ANALYSIS/
- 104 TITLE.....: SYNTHESIS OF THE BELT OF A DISCRETE BELT VARIATOR,

AUTHORS.....: GULIA, N. V. / YUDOVSKII, I. D.

ORGANIZATION: KURSK POLYTECH. INST., USSR

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MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 104 TITLE.....: SYNTHESIS OF THE BELT OF A DISCRETE BELT VARIATOR (CONTD.)
SOURCE.....: IZV. VYSSH. UCHEBN. ZAVED., MASHINOSTR. 9, 1974.
PUBL. DATE...: 1974
TYPE.....: JOURNAL ART.
- KEYWORDS.....: ACCELERATION/ AUTOMOBILES/ DESIGN/ ENERGY STORAGE/
FLYWHEELS/ MACHINE PARTS
- 105 TITLE.....: GYROSCOPIC EFFECT OF FLYWHEELS IN MACHINES
AUTHORS.....: GULIA, N. V. ET AL
- SOURCE.....: RUSS. ENG. J. (ENGL. TRANS.) 54, 7, 1974 RUSS. ENG. J.
(ENGL. TRANS.) 54, 7, 41-43 1974
PUBL. DATE...: 1974
TYPE.....: JOURNAL TRANSLATION
- KEYWORDS.....: ANGULAR VELOCITY/ AUTOMOBILES/ ENERGY STORAGE/ FLYWHEELS/
MECHANICS/ ROTATION/GYROSCOPIC EFFECT/INERTIA
STORAGE/ANGULAR VELOCITY/ VEHICLES/CALCULATIONS
- 106 TITLE.....: BATTERY POWERED VEHICLE DRIVE
AUTHORS.....: DEANE, C. T.
- SOURCE.....: U.S. PATENT 3,874,472
PUBL. DATE...: JAN 25 1974
TYPE.....: PATENT
ASSIGNED.....: WEST VIRGINIA HIGH BIRD CORP. ,ST. ALBANS, W.VA.
- KEYWORDS.....: AUTOMOBILES/ CONTROL SYSTEMS/ DESIGN/ ELECTRIC BATTERIES/
ELECTRIC GENERATORS/ ELECTRIC MOTORS/ ELECTRIC-POWERED
VEHICLES/ FLYWHEELS/ HYBRID SYSTEMS/ MECHANICAL
TRANSMISSIONS VEHICLES/HYBRID/FLYWHEELS
- 107 TITLE.....: KINETIC ENERGY SYSTEMS FOR MOVING PEOPLE
AUTHORS.....: BAXTER, J. W. / LAWSON, L. J.
- SOURCE.....: AUTOMOTIVE ENGINEERING CONGRESS, DETROIT, MICH., FEB. 1974,
PAPER NO. 740231.

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II FLYWHEELS IN VEHICLES

- 107 TITLE.....: KINETIC ENERGY SYSTEMS FOR MOVING PEOPLE (CONTD.)
PUBL. DATE...: FEB 1974
TYPE.....: PAPER PRESENTED AT MEETING

KEYWORDS.....: FLYWHEELS/VEHICLES/TROLLEY BUS/MASS TRANSIT
- 108 TITLE.....: FLYWHEEL BRAKES STORE NEW TRAIN'S ENERGY FOR ELECTRICITY-
SAVING STARTS; NEW YORK'S LATEST SUBWAY CARS

AUTHORS.....: ARMAGNAC, A. P.

SOURCE.....: POP. SCI. 204, 70
PUBL. DATE...: FEB 1974

KEYWORDS.....: REGENERATIVE BRAKING/FLYWHEELS/VEHICLES/MASS TRANSPORTATION
- 109 TITLE.....: A FLYWHEEL IN YOUR FUTURE

AUTHORS.....: NEWSWEEK

SOURCE.....: NEWSWEEK, FEB. 11, 1974, P. 98.
PUBL. DATE...: FEB 11 1974

KEYWORDS.....: FLYWHEELS/VEHICLES/FLYWHEEL DESIGN/REGENERATIVE BRAKING/
UTILITIES
- 110 TITLE.....: HYBRID DRIVE WITH FLYWHEEL COMPONENT FOR ECONOMIC AND
DYNAMIC OPERATION

AUTHORS.....: HELLING, J. / SCHRECK, H. / GIERA, B.

ORGANIZATION: TECH. HOCHSCH., AACHEN, GER.

SOURCE.....: PROC., 3RD INT. ELECTR. VEH. SYMP. AND EXPO. PAPER 7453
PUBL. DATE...: FEB 19 1974

LOCATION.....: WASHINGTON, D.C.
DATE.....: FEB. 19-21, 1974

KEYWORDS.....: FLYWHEELS/HYBRID/ENERGY STORAGE/ VEHICLES/INTERNAL
COMBUSTION ENGINE

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 111 TITLE.....: ELECTRICAL PROPULSION SYSTEMS FOR ROAD VEHICLES. STATE OF THE ART AND PRESENT-DAY PROBLEMS
- AUTHORS.....: BADER, C. /PLUST, H. G.
- ORGANIZATION: DEUTSCHE AUTOMOBILGES DEUTSCHE AUTOMOBILGESELLSCHAFT MBH
ADDRESS.....: ESSLINGEN, GERMANY
- SOURCE.....: PROCEEDINGS OF THE THIRD SYMPOSIUM AND EXPOSITION OF THE INSTITUTE OF ELECTRICAL VEHICLES INTERNATIONAL ELECTRICAL VEHICLE SYMPOSIUM AND EXPOSITION PROCEEDINGS, VOLUME 2 , PAPER 7478
- PUBL. DATE...: FEB 19 1974
- TYPE.....: PROCEEDINGS OF CONF.
- CONFERENCE...: 3RD INSTITUTE OF ELECTRICAL VEHICLES SYMPOSIUM AND EXPOSITION 3RD INTERNATIONAL INSTITUTE OF ELECTRICAL VEHICLE SYMPOSIUM AND EXPOSITION
- LOCATION.....: WASHINGTON, D.C.
- DATE.....: 19 FEB., 1974
- KEYWORDS.....: COST/ ELECTRIC BATTERIES/ ELECTRIC-POWERED VEHICLES/ ENERGY STORAGE/ FLYWHEELS/ FUEL CELLS/ HYBRID ELECTRIC-POWERED VEHICLES/ INTERNAL COMBUSTION ENGINES/ LEAD-ACID BATTERIES/ METAL-GAS BATTERIES/ REVIEWS
BATTERIES/HYBRIDS/VEHICLES/ALKALINE BATTERIES/HIGH TEMPERATURE/ HYDROGEN POWERED/FLYWHEELS
-
- 112 TITLE.....: METALS AND COMPOSITES IN SUPERFLYWHEEL ENERGY STORAGE SYSTEMS
- AUTHORS.....: RABENHORST, D. W.
- ORGANIZATION: JOHNS HOPKINS UNIV.
ADDRESS.....: SILVER SPRING, MD
- SOURCE.....: PROCEEDINGS OF THE 14 ANNUAL ASME SYMPOSIUM SAMPE Q., 6, 2, P. 23.
- PUBL. DATE...: FEB 28 1974
- PUBLISHER...: AMERICAN SOCIETY OF MECHANICAL ENGINEERS. NEW MEXICO SECTION
- CONFERENCE...: SYMPOSIUM ON ENGINEERING FOR THE MATERIALS ENERGY CHALLENGE
- LOCATION.....: ALBUQUERQUE, NEW MEXICO, USA
- DATE.....: 28 FEB 1974
- KEYWORDS.....: COMPOSITE MATERIALS/DESIGN/ENERGY STORAGE/FLYWHEELS/MATERIALS/MECHANICAL PROPERTIES/METALS/

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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II FLYWHEELS IN VEHICLES

- 113 TITLE.....: CURRENT STATUS OF ALTERNATIVE AUTOMOTIVE POWER SYSTEMS AND FUELS
AUTHORS.....: AEROSPACE CORP.

SOURCE.....: VOL. IV, ELECTRIC AND HYBRID POWER SYSTEMS, ATR-74(7325)-1
PUBL. DATE...: JUL 1974
TYPE.....: REPORT

KEYWORDS.....: FLYWHEELS/VEHICLES/VEHICLE POWER/HYBRID
- 114 TITLE.....: CURRENT STATUS OF ALTERNATIVE AUTOMOTIVE POWER SYSTEMS AND FUELS.
SUBTITLE.....: VOLUME IV.ELECTRIC AND HYBRID POWER SYSTEMS
AUTHORS.....: LAPEDES,D.E./HINTON,M.G./MELTZER,J./IURA,T./DYKEMA,O.
/FORREST,L./HAGEN,K./KETTLER,J./LAFRANCE,R./SMALLEY,W.

ORGANIZATION: AEROSPACE CORP.
ADDRESS.....: EL SEGUNDO,CALIF.(USA)

SOURCE.....: EPA--460 3-74-013-D(VOL.4)
CONTRACT #...: 68-01-0417
PUBL. DATE...: JUL 1974

CATEGORY.....: ENERGY CONVERSION

KEYWORDS.....: AUTOMOBILES/DESIGN/ELECTRIC BATTERIES/ELECTRIC-POWERED
VEHICLES/ENERGY STORAGE/FLYWHEELS/FORECASTING/ HEAT ENGINES
/ HYBRID ELECTRIC-POWERED VEHICLES / HYBRID SYSTEMS/LEAD-
ACID BATTERIES/NICKEL-HYDROGEN BATTERIES/ NICKEL-ZINC
BATTERIES/PERFORMANCE/USES/
- 115 TITLE.....: CURRENT STATUS OF ALTERNATIVE AUTOMOTIVE POWER SYSTEMS AND FUELS.
SUBTITLE.....: VOLUME I.EXECUTIVE SUMMARY
AUTHORS.....: LAPEDES,D.E./HINTON,M.G./MELTZER,J./IURA,T.

ORGANIZATION: AEROSPACE CORP.
ADDRESS.....: EL SEGUNDO,CALIF.(USA)

SOURCE.....: EPA--460 3-74-013-A(VOL.1)
CONTRACT #...: 68-01-0417
PUBL. DATE...: JUL 1974

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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II FLYWHEELS IN VEHICLES

- 115 TITLE.....: CURRENT STATUS OF ALTERNATIVE AUTOMOTIVE POWER SYSTEMS AND (CONTD.)
CATEGORY.....: ENERGY CONVERSION
- KEYWORDS.....: AMMONIA / AUTOMOBILES / AUTOMOTIVE FUELS / COMPARATIVE
EVALUATIONS / DIESEL ENGINES/ELECTRIC BATTERIES/ ELECTRIC-
POWERED VEHICLES / ENGINES
/ETHANOL/FLYWHEELS/GASOLINE/HYBRID ELECTRIC-POWERED
VEHICLES/HYDRAZINE/HYDROGEN FUELS / METHANE / METHANOL
/MIXTURES/NATURAL GAS/PROPANE/PROPULSION/RANKINE CYCLE
ENGINES/STIRLING ENGINES/STRATIFIED CHARGE
ENGINES/SYNTHETIC FUELS/SYNTHETIC PETROLEUM/WANKEL ENGINES/
- 116 TITLE.....: ATA RAIL TRANSIT CONFERENCE. CAR EQUIPMENT SESSIONS.
AUTHORS.....: LAWSON, L. J. / ET AL.
ORGANIZATION: AMER. TRANSIT ASSN.
ADDRESS.....: WASHINGTON, D. C.
SOURCE.....: PAPERS PRESENTED AT ATA RAIL TRANSIT CONF. SAN FRANCISCO,
CA., APR. 14-16, 1974 REPORT NO. ATA/RT-74/1
PUBL. DATE...: AUG 1974
- KEYWORDS.....: FLYWHEELS/URBAN TRANSPORT/SAN FRANCISCO MUNI/BUSSES/D.C.
MOTORS/ BATTERIES/ TRAINS
- 117 TITLE.....: HYBRID AUTOMOTIVE ENGINE WITH KINETIC ENERGY STORAGE
AUTHORS.....: SCHRECK, H./TORRES, F.
ORGANIZATION: TECHNISCHE HOCHSCHULE
ADDRESS.....: AACHEN GERMANY
SOURCE.....: CONF-741151-- (GERMAN)
PUBL. DATE...: SEP 1974
- CONFERENCE...: SECOND SYMPOSIUM ON LOW POLLUTION POWER SYSTEMS DEVELOPMENT
LOCATION.....: DUSSELDORF, F.R.GERMANY
DATE.....: 4 NOV 1974
- KEYWORDS.....: AUTOMOBILES/FLYWHEELS/FUEL CONSUMPTION/HYBRID
SYSTEMS/PERFORMANCE TESTING/SPARK IGNITION ENGINES/

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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II FLYWHEELS IN VEHICLES

- 118 TITLE.....: STATUS REVIEW OF HYBRID HEAT ENGINE BATTERY AND HEAT ENGINE
FLYWHEEL VEHICLES
- AUTHORS.....: LAPEDES,D.E./MELTZER,J.
- ORGANIZATION: AEROSPACE CORP.
ADDRESS.....: EL SEGUNDO,CA
- SOURCE.....: CONF-741151--
PUBL. DATE...: SEP 1974
- CONFERENCE...: SECOND SYMPOSIUM ON LOW POLLUTION POWER SYSTEMS DEVELOPMENT
LOCATION.....: DUSSELDORF,F.R.GERMANY
DATE.....: 4 NOV 1974
- KEYWORDS.....: AUTOMOBILES/CARBON MONOXIDE/COMPUTER
CALCULATIONS/COST/DESIGN/DYNAMOMETERS/EFFICIENCY/ELECTRIC
BATTERIES/ EXHAUST GASES / FEASIBILITY STUDIES / FLYWHEELS
/FUEL CONSUMPTION/FUNCTIONAL MODELS/GAS TURBINES/HYBRID
ELECTRIC-POWERED VEHICLES / HYBRID
SYSTEMS/HYDROCARBONS/LEAD-ACID
BATTERIES/MATERIALS/MECHANICAL TRANSMISSIONS/ MOCKUP
/NICKEL-ZINC BATTERIES/NITROGEN OXIDES/PERFORMANCE
TESTING/PROPULSION/RESEARCH PROGRAMS/SIMULATION/SPARK
IGNITION ENGINES/STIRLING ENGINES/TESTING/
- 119 TITLE.....: ALTERNATIVE PRIME MOVERS FOR FUTURE AUTOMOBILES
SUBTITLE.....: INCLUDES RESULTS OF TESTS ON VARIOUS VEHICLES MADE BY THE U.
S.ENVIRONMENTAL PROTECTION AGENCY
- AUTHORS.....: STERNLICHT,B./THUR,G.M.
- ORGANIZATION: MECHANICAL TECH.,INC.
ADDRESS.....: LATHAM,NY
- SOURCE.....: CONF-741151--
PUBL. DATE...: SEP 1974
- CONFERENCE...: SECOND SYMPOSIUM ON LOW POLLUTION POWER SYSTEMS DEVELOPMENT
LOCATION.....: DUSSELDORF,F.R.GERMANY
DATE.....: 4 NOV 1974
- KEYWORDS.....: ACCELERATION/AIR POLLUTION/AMMONIA/AUTOMOBILES/AUTOMOTIVE
FUELS/CARBON MONOXIDE/COST/DIESEL ENGINES/DYNAMOMETERS/
ELECTRIC BATTERIES/ELECTRIC-POWERED VEHICLES/ENERGY
CONSERVATION/ENERGY STORAGE/ENGINES/ETHANOL/EXHAUST GASES
/FEDERAL DRIVING CYCLE/FLYWHEELS/FUEL
CONSUMPTION/HYDRAZINE/HYDROCARBONS/HYDROGEN
FUELS/MATERIALS/METHANE/METHANOL/ NITROGEN OXIDES /
PERFORMANCE / PETROLEUM /PROJECT INDEPENDENCE/RANKINE CYCLE
ENGINES/SHALE OIL/ SPARK IGNITION ENGINES/
STORAGE/STRATIFIED CHARGE ENGINES/TESTING/WANKEL ENGINES/

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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II FLYWHEELS IN VEHICLES

- 120 TITLE.....: KINETIC ENERGY STORAGE FOR MASS TRANSPORTATION
AUTHORS.....: LAWSON, L. J.
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO.
ADDRESS.....: SUNNYVALE,CA
SOURCE.....: CONF-740641--1
PUBL. DATE...: SEP 1974
PUBLISHER....: MECH.ENG. 96 9
CONFERENCE...: CONFERENCE ON ADVANCED ENERGY SYSTEMS
LOCATION.....: DENVER,COLORADO,USA
DATE.....: 20 JUN 1974
CATEGORY.....: ELECTRONICS AND ELECTRICAL ENGINEERING ENERGY SOURCES
ENGINEERING
KEYWORDS.....: AIR POLLUTION / AUTOMOBILES / EFFICIENCY / ELECTRIC
GENERATORS/ENERGY SHORTAGES/ENERGY SOURCES/ENERGY STORAGE /
ENVIRONMENTAL EFFECTS/FLYWHEELS/HEAT ENGINES/KINETIC
ENERGY/MOTORS/NOISE/TRANSPORTATION SYSTEMS/URBAN AREAS/
- 121 TITLE.....: IMPROVED REGENERATIVE BRAKING SYSTEM
AUTHORS.....: HYNE, A. / ZUCKER, O.
SOURCE.....: DISCLOSURE, INVENTION CASE NO. IL-5925, 1974.
PUBL. DATE...: SEP 24 1974
TYPE.....: INVENTION DISCLOSURE
- 122 TITLE.....: THE KINETIC ENERGY WHEEL
SUBTITLE.....: A MEANS OF REDUCING POLLUTION WHILE CONSERVING RESOURCES
AUTHORS.....: LAWSON, L. J.
ORGANIZATION: INSTITUTE OF ENVIRONMENTAL SCIENCES
SOURCE.....: 21ST ANNUAL TECHNICAL MEETING OF THE INSTITUTE OF
ENVIRONMENTAL SCIENCES.VOLS.I AND II ,130
PUBL. DATE...: 1975
CONFERENCE...: 21.ANNUAL TECHNICAL MEETING OF THE INSTITUTE OF
ENVIRONMENTAL SCIENCES
LOCATION.....: ANAHEIM,CA
DATE.....: 14 APR 1975

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II FLYWHEELS IN VEHICLES

- 122 TITLE.....: THE KINETIC ENERGY WHEEL (CONTD.)
KEYWORDS.....: ELECTRIC POWER/ENERGY CONSERVATION/ENERGY
CONSUMPTION/ENERGY STORAGE/ENVIRONMENTAL
EFFECTS/FLYWHEELS/KINETIC ENERGY /VEHICLES/ ENERGY
STORAGE/ENVIRONMENT VEHICLES/TRANSPORTATION/FLYWHEELS
- 123 TITLE.....: NEW YORK SUBWAY TRIES OUT FLYWHEEL ENERGY STORAGE
AUTHORS.....: RAILWAY GAZETTE INTERNATIONAL

SOURCE.....: (JAN 1975)=(23-24)
PUBL. DATE...: JAN 1975

KEYWORDS.....: MASS
TRANSPORTATION/VEHICLES/FLYWHEELS/CHOPPERS/REGENERATIVE
BRAKING/HYBRID/ENERGY STORAGE
- 124 TITLE.....: AUTOMOBILE AIR POLLUTION, PART 4. NEW AUTOMOTIVE ENGINES (A
BIBLIOGRAPHY WITH ABSTRACTS). PERIOD COVERED: 1970-DEC.
1974.

AUTHORS.....: LEHMANN, E. J.

ORGANIZATION: NTIS
ADDRESS.....: SPRINGFIELD, VA.

SOURCE.....: NTIS/PS-75/312
PUBL. DATE...: FEB 1975
PUBLISHER....: NTIS

KEYWORDS.....: AIR POLLUTION/ AUTOMOBILES/ BIBLIOGRAPHIES/ DESIGN/
ENGINES/ EXHAUST GASES/ FLYWHEELS/ GAS TURBINES/ HYBRID
ELECTRIC-POWERED VEHICLES/ HYBRID SYSTEMS/ RANKINE CYCLE
ENGINES/ ROTARY ENGINES/ STRATIFIED CHARGE ENGINES
- 125 TITLE.....: DYNAMIC BRAKING
AUTHORS.....: KALRA, P.

ORGANIZATION: BECHTEL, INC.
ADDRESS.....: SAN FRANCISCO, CA.

SOURCE.....: IEEE SPECTRUM, V 12, NO. 5, MAY 1975, P. 63

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II FLYWHEELS IN VEHICLES

- 125 TITLE.....: DYNAMIC BRAKING (CONTD.)
PUBL. DATE...: MAY 05 1975
- KEYWORDS.....: DYNAMIC BRAKING /FLYWHEELS/ENERGY STORAGE/THYRISTOR
INVERTOR- RECUPERATIVE/RAPID TRANSIT/RAIL TRANSIT
- 126 TITLE.....: VEHICLE POWER SYSTEM FOR LIMITED VEHICLE MOVEMENT WITHOUT
USE OF FUEL
- AUTHORS.....: STROHLEIN, J.N.
- SOURCE.....: US PATENT 3,882,950 FILED DATE 11 JUL 1972
PUBL. DATE...: MAY 13 1975
TYPE.....: PATENT
- KEYWORDS.....: FLYWHEEL/VEHICLE/HYBRID/TRANSFERENCE OF ENERGY/AUTOMATIC
RECHARGE
- 127 TITLE.....: THREE MILE ISLAND NUCLEAR STATION, UNIT 2. LICENSE
APPLICATION, FSAR, AMENDMENT 27
SUBTITLE....: RESPONSES TO FIRST ROUND NRC QUESTIONS PERTAINING TO PUMP
FLYWHEEL INTEGRITY
- AUTHORS.....: METROPOLITAN EDISON CO.
- ORGANIZATION: METROPOLITAN EDISON CO..
ADDRESS.....: READING, PA. (USA)
- PUBL. DATE...: MAY 16 1975
TYPE.....: DOCKET-50320--145
- KEYWORDS.....: FLYWHEELS/PUMPS/REACTOR COOLING
SYSTEMS/SPECIFICATIONS/THREE MILE ISLAND-2 REACTOR/
- 128 TITLE.....: INCREASED FUEL ECONOMY IN TRANSPORTATION SYSTEMS BY USE OF
ENERGY MANAGEMENT
- AUTHORS.....: BEACHLEY, N. H. / FRANK, A. A.
- ORGANIZATION: DEPT. OF TRANSPORTATION
ADDRESS.....: CAMBRIDGE, MASS.

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II FLYWHEELS IN VEHICLES

- 128 TITLE.....: INCREASED FUEL ECONOMY IN TRANSPORTATION SYSTEMS BY USE OF (CONTD.)
SOURCE.....: DOT-TSC-OST-75-31. ALSO: CONF-750123
PUBL. DATE...: JUN 1975
TYPE.....: REPORT
PUBLISHER....: DOT

CONFERENCE...: CONTRACTORS COORDINATION MEETING
LOCATION.....: CAMBRIDGE, MASS.
DATE.....: 15 JAN 1975

KEYWORDS.....: AUTOMOBILES/ BRAKES/ COMPUTER CALCULATIONS/ EXHAUST GASES/
FLYWHEELS/ FUEL CONSUMPTION/ INTERNAL COMBUSTION ENGINES/
MATHEMATICAL MODELS/ MECHANICAL TRANSMISSIONS/ SIMULATION
- 129 TITLE.....: HYBRID POWER SYSTEM

AUTHORS.....: SUGIYAMA,H./HIROTA,T./KAKEI,J./KABASAWA,Y.

SOURCE.....: US PATENT 3,886,810 PRIORITY DATE 21 SEP 1973,JAPAN
PUBL. DATE...: JUN 03 1975
TYPE.....: PATENT
ASSIGNED.....: NISSAN MOTOR CO.,LTD.

KEYWORDS.....: AUTOMOBILES/CONTROL SYSTEMS/DESIGN/FLYWHEELS/HYBRID
SYSTEMS/MECHANICAL TRANSMISSIONS/
- 130 TITLE.....: FLYWHEELS - FLYWHEEL IN AUTO TO REPLACE GASOLINE

AUTHORS.....: MACHINE DESIGN

SOURCE.....: MACHINE DESIGN 47:12 AUGUST 07, 1975
PUBL. DATE...: AUG 1975
- 131 TITLE.....: HYBRID VEHICLES

AUTHORS.....: VIVIAN, H. C.

ORGANIZATION: CALIF. INST. OF TECHNOLOGY
ADDRESS.....: PASADENA, CA.

SOURCE.....: NP-20719-P2
PUBL. DATE...: AUG 1975

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II FLYWHEELS IN VEHICLES

131 TITLE.....: HYBRID VEHICLES (CONTD.)
TYPE.....: REPORT

KEYWORDS.....: VEHICLES/HYBRID/ECONOMICS/WEIGHT/SAFETY/ELECTRIC-FLYWHEEL
VEHICLES/ENERGY STORAGE

132 TITLE.....: IDEAS AND EXPERIMENTS IN MAGNETIC INTERFACING
AUTHORS.....: AALAND, K. / LANE, J. E.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550

SOURCE.....: UCRL-77486. ALSO: CONF-751133-6
PUBL. DATE...: DEC 10 1975
TYPE.....: REPORT
PUBLISHER....: LLL

CONFERENCE...: FLYWHEEL TECHNOLOGY SYMPOSIUM
LOCATION.....: BERKELEY, CA.
DATE.....: 10 NOV 1975

KEYWORDS.....: AUTOMOBILES/ BENCH-SCALE EXPERIMENTS/ COMPOSITE MATERIALS/
CONTROL SYSTEMS/ ELECTRIC GENERATORS/ ELECTRIC MOTORS/
ENERGY STORAGE/ FIBERS/ FLYWHEELS/ LEVITATION/ MAGNETIC
BEARINGS/ SIMULATION

133 TITLE.....: HYBRID DRIVE WITH KINETIC ENERGY STORE AS VEHICLE DRIVE
AUTHORS.....: SCHRECK, H. / TORRES, F.

ORGANIZATION: TECHNISCHE HOCHSCHULE AACHEN (F.R. GERMANY)

SOURCE.....: HYBRIDENTRIEB MIT KINETISCHEM ENERGIESPEICHER ALS
FAHRZEUGANTREIB
PUBL. DATE...: FEB 1976
TYPE.....: TRANSLATION

KEYWORDS.....: AUTOMOBILES/ FLYWHEELS/ FUEL CONSUMPTION/ FUNCTIONAL
MODELS/ HYBRID SYSTEMS/ INTERNAL COMBUSTION ENGINES/
PERFORMANCE TESTING/ REGENERATIVE BRAKING

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

- 134 TITLE.....: BATTERY-FLYWHEEL HYBRID ELECTRIC POWER SYSTEM FOR NEAR-TERM APPLICATION, VOL. 1, SYSTEM DESCRIPTION.
AUTHORS.....: DAVIS, D. D.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCID-17098-VOLUME-1
PUBL. DATE...: APR 15 1976
- 135 TITLE.....: BATTERY-FLYWHEEL HYBRID ELECTRIC POWER SYSTEM FOR NEAR-TERM APPLICATION, VOL. 2, SYSTEM DESIGN.
AUTHORS.....: DAVIS, D. D.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCID-17098-VOLUME-2
PUBL. DATE...: APR 15 1976
- 136 TITLE.....: FLYWHEELS - PRACTICAL FLYWHEEL ENGINE: WILL FIBER GLASS BE THE ANSWER?
AUTHORS.....: IL BUS W
SOURCE.....: IL BUS W P. 109 MAY 03, 1976
PUBL. DATE...: MAY 03 1976
- 137 TITLE.....: FLYWHEELS: ENERGY-SAVING WAY TO GO
AUTHORS.....: ENVIRONMENTAL SCIENCE AND TECHNOLOGY
SOURCE.....: ENVIRONMENTAL SCIENCE AND TECHNOLOGY, VOL 10, JULY 1976, P. 636-639
PUBL. DATE...: JUL 1976
KEYWORDS.....: FUNDING/STATE-OF-THE-ART/HYBRIDS/FLYWHEELS/COMPOSITES/REVIEW/ SOVIET FLYWHEELS/ACT-1 CARS/R-32 CARS

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 138 TITLE.....: ENERGY STORING MASS AND METHOD FOR MAKING
AUTHORS.....: CALL, B. J.

SOURCE.....: U. S. PATENT 3,496,799, SEPT. 1966.
PUBL. DATE...: SEP 1966
TYPE.....: PATENT
- 139 TITLE.....: MOMENTUM EXCHANGE ACQUISITION SYSTEM, FINAL REPORT
AUTHORS.....: FISCHER, WM. A.

SOURCE.....: AD-813466, AFAPL TR-67-9
CONTRACT #...: AF 33(615)-3243, PROJ. AF-3145, TASK 314502
PUBL. DATE...: MAR 1967
- 140 TITLE.....: FLYWHEEL STABILIZATION OF A RIGID BODY SUBJECTED TO
CONSTANTLY APPLIED PERTURBATIONS
AUTHORS.....: DERGACHEVA, E. I.

SOURCE.....: AUTOMATION AND REMOTE CONTROL, P 25, JAN 1968.
PUBL. DATE...: JAN 1968
- 141 TITLE.....: EMERGENCY PUMP SYSTEMS ARE BOOTSTRAPS TO POWER
AUTHORS.....: PRODUCT ENG.

SOURCE.....: PRODUCT ENG. 39, P 138, MAY 20, 1968
PUBL. DATE...: MAY 20 1968
- 142 TITLE.....: FEASIBILITY OF FLYWHEEL HIGH-ENERGY STORAGE
AUTHORS.....: SVENSSON, A. / WETHERBEE, A. E.

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 142 TITLE.....: FEASIBILITY OF FLYWHEEL HIGH-ENERGY STORAGE (CONTD.)
 ORGANIZATION: PRATT AND WHITNEY AIRCRAFT
 ADDRESS.....: EAST HARTFORD, CONN.

 SOURCE.....: REPORT PWA-3676
 PUBL. DATE...: APR 15 1969
 TYPE.....: REPORT

 KEYWORDS.....: FLYWHEELS/COMPOSITE MATERIALS/FLYWHEEL FABRICATION/
 FLYWHEELS-HIGH ENERGY
- 143 TITLE.....: FINAL DESIGN REPORT, PROTOTYPE GEARBOX FLYWHEEL (FLYBOX)
 FOR STORED ENERGY ROTARY DRIVE SHIPBOARD CATAPULT

 AUTHORS.....: NELLIS, V. C.

 ORGANIZATION: GENERAL ELECTRIC CO.
 ADDRESS.....: LYNN, MASS.

 SOURCE.....: REPORT NO. NAEC-ENG-7657, PREPARED FOR NAVAL AIR ENGINEER-
 ING CENTER, PHILADELPHIA, PA.
 PUBL. DATE...: 1970
 TYPE.....: REPORT

 KEYWORDS.....: FLYWHEELS/FLYBOX/FLYWHEEL DESIGN/SHIPBOARD CATAPULT/ ENERGY
 STORAGE
- 144 TITLE.....: FIRST NATIONAL CITY BANK USES CONSTANT-POWER SYSTEM FOR
 COMPUTERS

 AUTHORS.....: ORTIZ, J. V.

 ORGANIZATION: SYSKA AND HENNESSY, INC. ENGINEERS
 ADDRESS.....: NEW YORK, N.Y.

 SOURCE.....: ELEC. CONSTR. MAINT. 69, 1, JAN 1970 ELECTRICAL
 CONSTRUCTION AND MAINTENANCE 69, 1, 96-97
 PUBL. DATE...: JAN 1970
 TYPE.....: PERIODICAL

 KEYWORDS.....: COMPUTERS/ DIESEL ENGINES/ ENERGY STORAGE/ FLYWHEELS/ POWER
 SUPPLIES/POWER FAILURE/FLYWHEELS/DIESEL ELECTRIC
 SETS/UTILITIES/CONSTANT POWER SYSTEM/ENERGY STORAGE

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 145 TITLE.....: FLYWHEEL GENERATORS FOR INSTANT POWER
AUTHORS.....: ASHMOLE, P. H.

SOURCE.....: ELECTR. TIMES 157, 4, 45
PUBL. DATE...: JAN 22 1970
TYPE.....: PERIODICAL

KEYWORDS.....: ALTERNATING CURRENT/ ELECTRIC GENERATORS/ ENERGY STORAGE/
FLYWHEELS/ GAS TURBINES/ TRANSIENTS
- 146 TITLE.....: ACHIEVEMENTS AND PROSPECTS IN THE UTILIZATION OF KINETIC
ENERGY
AUTHORS.....: GROSU, S. I.

SOURCE.....: IEEE TRANS. IND. AND GEN. APPLICATIONS 6, P 647, NOV 1970.
PUBL. DATE...: NOV 1970
- 147 TITLE.....: POWER-SYSTEMS RESEARCH SHIFTS TO MEET SOCIAL GOALS
AUTHORS.....: CHEM. ENG.

SOURCE.....: CHEM. ENG. 77, P 48, NOV. 2, 1970.
PUBL. DATE...: NOV 02 1970
- 148 TITLE.....: OPERATING LARGE EXCAVATORS ON SMALL POWER SYSTEMS
AUTHORS.....: KILGORE, L. A. / WASHBURN, D. C.

SOURCE.....: ENG. AND MIN. J. 172, 131 (JUNE 1971)
PUBL. DATE...: JUN 1971

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 149 TITLE.....: HYDRAULIC TRANSMISSION COUPLED STANDBY POWER UNIT
AUTHORS.....: DYNAMICS CORP.

SOURCE.....: (FILED)=(FILED DATE)
PUBL. DATE...: DEC 15 1971
TYPE.....: PATENT
ASSIGNED.....: DYNAMICS CORP.

KEYWORDS.....: FLYWHEELS/HYDRAULIC POWER/ENERGY STORAGE/STANDBY/HYBRID/
POWER SYSTEM
- 150 TITLE.....: LOW PEAK TEMPERATURES AND HYDRODYNAMIC BEARINGS - KEY TO
LONG LIFE ORGANIC RANKINE CYCLE SYSTEMS
AUTHORS.....: BORETZ, J. E.

SOURCE.....: 7TH. INTERSOC. ENERGY CONVERSION ENG. CONF., 1972.
PUBL. DATE...: 1972
TYPE.....: PROCEEDINGS
- 151 TITLE.....: FLYWHEEL ENERGY BUFFER
AUTHORS.....: JAKUBOWSKI, M.
ORGANIZATION: IBM SYSTEMS DEVELOPMENT DIVISION
ADDRESS.....: ENDICOTT, NY
SOURCE.....: 7TH INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE
1972, SAN DIEGO, CA. PAPER 729170 P. 1141-1145
PUBL. DATE...: SEP 1972
TYPE.....: CONFERENCE PAPER

CATEGORY.....: ENERGY STORAGE
KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/UTILITIES/ECONOMICS
- 152 TITLE.....: ACHIEVING HIGH ENERGY EFFICIENCY
AUTHORS.....: INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 152 TITLE.....: ACHIEVING HIGH ENERGY EFFICIENCY (CONTD.)
SOURCE.....: INTERSOC. ENERGY CONVERSION ENG. CONF., 1973, PAPER 739114,
P. 232.
PUBL. DATE...: 1973
- 153 TITLE.....: SUPERFLYWHEEL
AUTHORS.....: RABENHORST, D. W.
ORGANIZATION: MARYLAND UNIV., COLLEGE PARK (USA). DEPT. OF MECHANICAL
ENGINEERING
ADDRESS.....: JOHN HOPKINS UNIV., APPLIED PHYS. LAB.
SOURCE.....: CONF-730350--P1
PUBL. DATE...: 1973
TYPE.....: PROCEEDINGS OF THE SOLAR HEATING AND COOLING FOR BUILDINGS
WORKSHOP, WASHINGTON, DC. MARCH 21-23, 1973. PART I } TECHNICAL
SESSIONS, MARCH 21 AND 22
CONFERENCE...: SOLAR HEATING AND COOLING FOR BUILDINGS WORKSHOP
LOCATION.....: WASHINGTON, DISTRICT OF COLUMBIA, USA
DATE.....: 21 MAR 1973
KEYWORDS....: ENERGY STORAGE/FLYWHEELS/ROTATION/SOLAR ENERGY
CONVERSION/STRESSES/
- 154 TITLE.....: ENERGY STORAGE VIA FLYWHEELS
AUTHORS.....: GILMAN, J. J. / HUCKE, E. E.
SOURCE.....: CONF-730749--P2
PUBL. DATE...: JUL 1973
TYPE.....: PRELIMINARY REPORTS, MEMORANDA AND TECHNICAL NOTES OF THE
MATERIALS RESEARCH COUNCIL SUMMER CONFERENCE, LA JOLLA,
CALIFORNIA. VOL. II PROCEEDINGS OF THE DISCUSSION GROUP ON
SOLAR ENERGY CONVERSION
CONFERENCE...: MATERIALS RESEARCH COUNCIL SUMMER CONFERENCE, LA JOLLA
LOCATION.....: LA JOLLA, CALIFORNIA, USA
DATE.....: 5 JUL 1973
KEYWORDS....: EFFICIENCY/ENERGY STORAGE/FEASIBILITY
STUDIES/FLYWHEELS/KINETIC ENERGY/PERFORMANCE/STRESSES/

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 155 TITLE.....: NEW UNINTERRUPTIBLE POWER SYSTEM ALTERNATIVES USING HIGH
CAPACITY KINETIC ENERGY WHEELS
- AUTHORS.....: LAWSON, L. J.
- ORGANIZATION: LOCKHEED MISSILES AND SPACE CO.
ADDRESS.....: SUNNYVALE, CA.
- SOURCE.....: IEEE IND. APPL. SOC. ANNU. MEET., 8TH, CONF. REC. PAP.
PUBL. DATE...: OCT 08 1973
- LOCATION.....: MILWAUKEE, WIS.
DATE.....: OCT 8-11, 1973
- KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/UNINTERRUPTIBLE POWER SYSTEMS/
UTILITIES/NO-BREAK SET
- 156 TITLE.....: INVESTIGATION OF THE HOMOPOLAR MOTOR-GENERATOR AS A POWER
SUPPLY FOR CONTROLLED FUSION EXPERIMENTS
- AUTHORS.....: RYLANDER, H.G./ROWBERG, R.E./TOLK, K.M./WELDON, W.F./WOODSON, H.
H.
- ORGANIZATION: UNIV. OF TEXAS
ADDRESS.....: AUSTIN, TEXAS
- SOURCE.....: PROCEEDINGS OF THE FIFTH SYMPOSIUM ON ENGINEERING PROBLEMS
OF FUSION RESEARCH, P. 447
PUBL. DATE...: NOV 06 1973
PUBLISHER....: INST. OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. NEW YORK
1974
- CONFERENCE...: 5. SYMPOSIUM ON ENGINEERING PROBLEMS OF FUSION RESEARCH
LOCATION.....: PRINCETON, NEW JERSEY, USA
- KEYWORDS.....: EFFICIENCY/ELECTRIC GENERATORS/ENERGY STORAGE/
FLYWHEELS/POWER SUPPLIES/THERMONUCLEAR REACTORS/ HOMOPOLAR
MACHINE/ENERGY STORAGE/THERMONUCLEAR REACTORS
- 157 TITLE.....: SUPERFLYWHEEL ENERGY STORAGE SYSTEM
- AUTHORS.....: RABENHORST, D. W.
- ORGANIZATION: APPLIED PHYSICS LAB., JOHNS HOPKINS UNIV.
ADDRESS.....: SILVER SPRING, MD.
- SOURCE.....: NASA LEWIS RES. CENTER WIND ENERGY SYSTEMS
PUBL. DATE...: DEC 1973

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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III FLYWHEELS IN UTILITIES

- 157 TITLE.....: SUPERFLYWHEEL ENERGY STORAGE SYSTEM (CONTD.)
KEYWORDS.....: FLYWHEELS/SUPER FLYWHEELS/STEEL FLYWHEEL/ENERGY
STORAGE/SOLAR ENERGY/BATTERIES/WIND ENERGY/DESIGN/SAFETY
- 158 TITLE.....: COMPUTER CONTROLLED 125 MVA POWER SUPPLY FACILITY FOR
NUCLEAR FUSION RESEARCH
AUTHORS.....: MIYAHARA, A. / BANNAI, E. / KITANO, Y.
ADDRESS.....: JAPAN
SOURCE.....: TOSHIBA REV., INT. ED. 94, 1974, 7-13 (1974, 7-13)=(7-13)
PUBL. DATE...: 1974
KEYWORDS.....: COMPUTER CALCULATIONS/ CONTROL SYSTEMS/ FLYWHEELS/ POWER
SUPPLIES/ THERMONUCLEAR REACTORS
- 159 TITLE.....: INDEPENDENT ENERGY SYSTEMS FOR BETTER EFFICIENCY
SUBTITLE.....: ON-SITE POWER GENERATION
AUTHORS.....: MARSHALL, O.W./MORASH, R.T./BARBER, R.J.
ORGANIZATION: ROSEL LABS.
ADDRESS.....: BRADENTON, FL
SOURCE.....: SEE CONF-740805--
PUBL. DATE...: 1974
TYPE.....: 9TH INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE
PROCEEDINGS
PUBLISHER....: AMERICAN SOCIETY OF MECHANICAL ENGINEERS NEW YORK
CONFERENCE...: 9. INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE
LOCATION.....: SAN FRANCISCO, CALIFORNIA, USA
DATE.....: 26 AUG 1974
KEYWORDS.....: AIR CONDITIONING / DIESEL ENGINES /
ECONOMICS/EFFICIENCY/ELECTRIC GENERATORS/ELECTRIC
POWER/ENERGY CONVERSION/ENERGY STORAGE / ENERGY SUPPLIES /
FLYWHEELS / HEATING/HOUSES/PLANNING/POWER PLANTS/SITE
SELECTION/SOLAR ENERGY/TOTAL ENERGY SYSTEMS/USES/WASTE
HEAT/WIND POWER/
- 160 TITLE.....: STORAGE SYSTEMS FOR ENERGY PEAKING DEMANDS. FIFTEEN PAPERS--
SURVEY OF PRESENT AND PROSPECTIVE HEAT AND ENERGY STORAGE
SYSTEMS

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 160 TITLE.....: STORAGE SYSTEMS FOR ENERGY PEAKING DEMANDS. FIFTEEN PAPERS-- (CONTD.)
AUTHORS.....: VDI
ORGANIZATION: VDI (VER. DTSCH. ING.)
ADDRESS.....: BERLIN, GER.
SOURCE.....: VDI BER. 223, 1974 (CONF. STUTGART, GERMANY)
PUBL. DATE...: 1974
PUBLISHER....: VDI
KEYWORDS.....: ELECTRIC BATTERIES/ ENERGY STORAGE/ FLYWHEELS/ GAS
TURBINES/ HEAT STORAGE/ LIQUEFIED NATURAL GAS/ MOLTEN
SALTS/ NUCLEAR POWER PLANTS/ OFF-PEAK ENERGY STORAGE/
PONDS/ REVIEWS/ STEAM/ SUPERCONDUCTING MAGNETS ENERGY
STORAGE/LATENT HEAT/BATTERIES/ TURBINES/SUPERCONDUCTING
MAGNETS
- 161 TITLE.....: NEW MOMENTUM FOR NUCLEAR FUSION. IN THE MAX-PLANCK-INSTITUT
IN MUENCHEN, A NEW PHASE OF PLASMA RESEARCH HAS BEGUN
SUBTITLE.....: FLYWHEELS FOR ENERGY STORAGE
AUTHORS.....: BRUNS, K.
PUBL. DATE...: JAN 1974
PUBLISHER....: WELT (HAMBURG) 26 JAN 1974 16 (IN GERMAN)
KEYWORDS.....: FUSION/FLYWHEELS/PLASMA/ENERGY STORAGE
- 162 TITLE.....: MECHANICAL AND BATTERY-STORED ENERGY SYSTEMS FOR MEETING
UNINTERRUPTIBLE AND BUFFERED ELECTRIC POWER NEEDS
AUTHORS.....: COMEAU, G. E.
ORGANIZATION: BRINCO LTD.
ADDRESS.....: MONTREAL, P.Q. CANADA
SOURCE.....: IEEE TRANS. IND. APPL., IA-10, 2, 209.
PUBL. DATE...: MAR 1974
TYPE.....: JOURNAL
PUBLISHER....: IEEE
KEYWORDS.....: COMPARATIVE EVALUATIONS/ ELECTRIC BATTERIES/ ENERGY
STORAGE/ FLYWHEELS

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 163 TITLE.....: ULTRAHIGH TEMPERATURE
SUBTITLE.....: TECHNOLOGY OF CONTROLLED THERMONUCLEAR FUSION EXPERIMENTS
AND THE ENGINEERING ASPECTS OF FUSION REACTORS

AUTHORS.....: RYLANDER, H.G./WOODSON, H.H./BECKER, E.B./ROWBERG, R.

ORGANIZATION: UNIV. OF TEXAS
ADDRESS.....: AUSTIN, TEXAS

SOURCE.....: (CONF-721111--)HOMOPOLAR MOTOR-GENERATOR DESIGNS FOR CHEAP
INERTIAL ENERGY STORAGE
PUBL. DATE...: APR 1974

CONFERENCE...: INTERNATIONAL MEETING ON THE TECHNOLOGY OF CONTROLLED
THERMONUCLEAR FUSION EXPERIMENTS AND THE ENGINEERING
ASPECTS OF FUSION REACTORS
LOCATION.....: AUSTIN, TEXAS
DATE.....: 20 NOV 1972

KEYWORDS.....: DESIGN/ELECTRIC GENERATORS/ELECTRIC MOTORS/ ENERGY
STORAGE/FLYWHEELS/MASS/ROTATION/
- 164 TITLE.....: ENERGY CRISIS
SUBTITLE.....: A POWER CRISIS. NEW TECHNOLOGIES REQUIRED TO SATISFY THE
INCREASING PEAK POWER DEMAND IN EUROPE IN THE 1980'S.

AUTHORS.....: BECCU, K. D.

ORGANIZATION: BATTELLE RESEARCH CENTRE
ADDRESS.....: GENEVA, SW.

PUBL. DATE...: MAY 06 1974
PUBLISHER...: INST. OF ELECTRICAL ENGINEERS, STEVENAGE, ENG.

CONFERENCE...: CONFERENCE ON ENERGY, EUROPE, AND THE 1980'S.
LOCATION.....: LONDON, ENG.
DATE.....: 6 MAY 1974

KEYWORDS.....: ENERGY STORAGE/ENERGY CONSERVATION/NUCLEAR POWER
PLANTS/PEAK POWER SUPPLIES/ENERGY CRISIS/UTILITIES
- 165 TITLE.....: ENERGY STORAGE. (I): USING ELECTRICITY MORE EFFICIENTLY

AUTHORS.....: ROBINSON, A.L.

SOURCE.....: SCIENCE 184, NO. 4138, P. 785.
PUBL. DATE...: MAY 17 1974
PUBLISHER...: SCIENCE 184 4138

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 165 TITLE.....: ENERGY STORAGE. (I): USING ELECTRICITY MORE EFFICIENTLY (CONTD.)
KEYWORDS.....: CHEMICAL REACTIONS/CHEMICAL REACTIONS/COMPRESSED
AIR/COMPRESSION/ECONOMICS/EFFICIENCY/ELECTRIC
BATTERIES/ELECTRICITY / ENERGY CONVERSION / ENERGY STORAGE
/ ENVIRONMENTAL EFFECTS / FLYWHEELS/GAS
TURBINES/HEATING/HIGH TEMPERATURE / HYDROELECTRIC POWER
PLANTS / MAGNETISM / MECHANICS / NUCLEAR POWER/PUMPED
STORAGE/STEAM TURBINES/STORED ENERGY/WATER RESERVOIRS/
- 166 TITLE.....: ENERGY STORAGE.(II):.DEVELOPING ADVANCED TECHNOLOGIES
AUTHORS.....: ROBINSON,A.L.

SOURCE.....: SCIENCE 184, NO. 4139, P. 884.
PUBL. DATE...: MAY 24 1974
PUBLISHER....: SCIENCE 184 4139

KEYWORDS.....: ELECTRIC BATTERIES / ELECTROMAGNETS / ENERGY
STORAGE/FLYWHEELS/FUSION HEAT/HYDROGEN/INVESTMENT/ MAGNETIC
FIELDS/SOLAR ENERGY/STORED
ENERGY/SUPERCONDUCTIVITY/SUPERCONDUCTORS/TRANSPORT/
- 167 TITLE.....: NO-BREAK SETS
AUTHORS.....: MOODY, R. L.

ORGANIZATION: DALE ELECTRIC OF GREAT BRITAIN, LTD
ADDRESS.....: LONDON, ENG.

SOURCE.....: STANDBY PLANT AND EMERGENCY EQUIPMENT CONFERENCE, ELECTR.
SUPERV. 54,4, JUN 1974
PUBL. DATE...: JUN 1974
TYPE.....: JOURNAL

KEYWORDS.....: ENERGY STORAGE/SHORT-TERM FAILURE/LONG-TERM
FAILURE/FLYWHEEL/ BATTERIES/HYBRID/COMPARISONS
- 168 TITLE.....: ENERGY STORAGE FOR THE ELECTRIC POWER INDUSTRY
AUTHORS.....: KELLER,W.E.

ORGANIZATION: LOS ALAMOS SCIENTIFIC LAB.
ADDRESS.....: LOS ALAMOS,N.MEX.(USA)

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 168 TITLE.....: ENERGY STORAGE FOR THE ELECTRIC POWER INDUSTRY (CONTD.)
SOURCE.....: CONF-740641--1 CONFERENCE ON ADVANCED ENERGY SYSTEMS
PUBL. DATE...: JUN 20 1974

CONFERENCE...: CONFERENCE ON ADVANCED ENERGY SYSTEMS
LOCATION.....: DENVER, COLORADO, USA
DATE.....: 20 JUN 1974

KEYWORDS.....: ECONOMICS/ELECTRIC POWER/ENERGY STORAGE/
FLYWHEELS/HYDROELECTRIC POWER/POWER PLANTS/SUPERCONDUCTING
MAGNETS/
- 169 TITLE.....: CAN FLYWHEELS REPLACE PUMPED STORAGE?
AUTHORS.....: GINSBURG, T.

SOURCE.....: (BLL-CE-TRANS-6761-(9022.09) AVAIL. BRITISH LIBRARY LENDING
DIV., BOSTON SPA, ENGLAND
PUBL. DATE...: JUL 15 1974

KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/OFF-PEAK ENERGY/UTILITIES/FLYWHEEL
DESIGN/FLYWHEEL MATERIALS/PUMPED STORAGE/ECONOMIC
- 170 TITLE.....: WIND POWER CONVERSION SYSTEM
AUTHORS.....: TROLL, J. H.

SOURCE.....: U.S. PATENT 3,944,840 FILED DATE 07 AUG 1974
PUBL. DATE...: AUG 07 1974
TYPE.....: PATENT

KEYWORDS.....: FLYWHEELS/ POWER GENERATION/ SPECIFICATIONS/ WIND
TURBINES/WIND TO ELECTRIC/FLYWHEEL STABILIZED/ENERGY
STORAGE/UTILITIES/ HYBRID
- 171 TITLE.....: ENERGY STORAGE TECHNOLOGY
AUTHORS.....: VANDERRYN, J.

ORGANIZATION: U.S. A.E.C. ,DIVISION OF APPLIED TECHNOLOGY
ADDRESS.....: WASHINGTON, D.C.

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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III FLYWHEELS IN UTILITIES

- 171 TITLE.....: ENERGY STORAGE TECHNOLOGY (CONTD.)
PUBL. DATE...: AUG 18 1974
PUBLISHER....: AMER. SOC. OF CIVIL ENG., N.Y.

CONFERENCE...: CONVERTING EXISTING HYDRO-ELECTRIC DAMS AND RESERVOIRS INTO
PUMPED STORAGE FACILITIES
LOCATION.....: RINDGE, NEW HAMPSHIRE
DATE.....: 18 AUG., 1974

KEYWORDS.....: UTILITIES/ENERGY STORAGE/FLYWHEELS/PUMPED STORAGE/STATE-OF-
THE-ART /SOLAR ENERGY/WIND ENERGY/FLYWHEELS/COMPRESSED
AIR/HEAT STORAGE/REVIEW
- 172 TITLE.....: ENERGY STORAGE AND ITS ROLE IN ELECTRIC POWER SYSTEMS

AUTHORS.....: HAYDOCK, J. L.

SOURCE.....: WEC/CME, IX, 1 (1974), DETROIT
PUBL. DATE...: SEP 1974
TYPE.....: PROCEEDINGS

KEYWORDS.....: ENERGY STORAGE/SUPERCONDUCTING MAGNETS/HEAT STORAGE/PUMPED
STORAGE/UNDERGROUND PUMPED STORAGE/AIR STORAGE/COAL
GASIFICATION/ FLYWHEELS/BATTERIES
- 173 TITLE.....: LARGE FLYWHEEL POWER SUPPLY FOR FUSION EXPERIMENTS IN THE
MAX-PLANCK-INSTITUT FUER PLASMAPHYSIK, GARCHING, GERMANY

AUTHORS.....: KNOBLOCH, A./KOTTMAIR, M./SCHLUETER, W./VAU, G.

ORGANIZATION: MAX-PLANCK-INSTITUT FUER PLASMAPHYSIK
ADDRESS.....: GARCHING, GER.

SOURCE.....: CONF-740630---/ PROCEEDINGS OF THE 8TH SYMPOSIUM ON FUSION
TECHNOLOGY
PUBL. DATE...: SEP 1974

CONFERENCE...: 8. SYMPOSIUM ON FUSION TECHNOLOGY
LOCATION.....: NOORDWIJKERHOUT, NETHERLANDS
DATE.....: 17 JUN 1974

KEYWORDS.....: DESIGN/ELECTRIC GENERATORS/ENERGY STORAGE/
FLYWHEELS/THERMONUCLEAR DEVICES/

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 174 TITLE.....: ENERGY STORAGE: INCENTIVES AND PROSPECTS FOR ITS DEVELOPMENT
AUTHORS.....: KALHAMMER, F.

SOURCE.....: AMER. CHEM. SOC. 1974 ANNUAL MEETING, SEP. 12, 1974,
ATLANTIC CITY, N. J.
PUBL. DATE...: SEP 12 1974
TYPE.....: PRESENTED PAPER

KEYWORDS.....: ENERGY STORAGE/BATTERIES/UTILITIES/CHEMICAL ENERGY
STORAGE/HYDROGEN/FLYWHEELS/FLYWHEEL DESIGN/PUMPED
STORAGE/COMPRESSED AIR STORAGE/HIGH TEMPERATURE/SOLAR ENERGY
- 175 TITLE.....: USE OF FLYWHEELS FOR ENERGY STORAGE
AUTHORS.....: RABENHORST, D. W.

SOURCE.....: PRESENTED AT FALL ACS MEET., SEP. 12, 1974, ATLANTIC CITY
PUBL. DATE...: SEP 12 1974
TYPE.....: MEETING PAPER

KEYWORDS.....: FLYWHEELS/UTILITIES/ENERGY STORAGE
- 176 TITLE.....: ASSESSMENT OF ADVANCED CONCEPTS IN ENERGY STORAGE AND THEIR
APPLICATION ON ELECTRIC UTILITY SYSTEMS
AUTHORS.....: FERNANDES, R. A. / GILDERSLEEVE, O.D. / SCHNEIDER, T. R.

SOURCE.....: CONF-740910-P6
PUBL. DATE...: SEP 22 1974
TYPE.....: CONFERENCE PAPER
PUBLISHER....: WORLD ENERGY CONFERENCE

CONFERENCE...: 9TH WORLD ENERGY CONFERENCE
LOCATION.....: DETROIT, MICH. USA
DATE.....: 22 SEP 1974

KEYWORDS.....: COMPARATIVE EVALUATIONS/ COMPRESSED AIR/ ECONOMICS/
ELECTRIC BATTERIES/ ENERGY STORAGE/ ENVIRONMENTAL EFFECTS/
FLYWHEELS/ HEAT STORAGE/ HYDROGEN/ OFF-PEAK ENERGY STORAGE/
POWER PLANTS/ SUPERCONDUCTING MAGNETS/ WATER RESERVOIRS

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

- 177 TITLE.....: POTENTIAL FOR LARGE-SCALE ENERGY STORAGE IN ELECTRIC
UTILITY SYSTEMS
AUTHORS.....: KALHAMMER, F. / ZYGIELBAUM, P. S.
SOURCE.....: ASME WINTER MEETING, NOV. 1974. PAPER 74-WA, ENER-9.
PUBL. DATE...: NOV 1974
TYPE.....: PRESENTED PAPER
KEYWORDS.....: ENERGY STORAGE/BATTERIES/UTILITIES/CHEMICAL ENERGY
STORAGE/HYDROGEN/FLYWHEELS/FLYWHEEL DESIGN/PUMPED
STORAGE/COMPRESSED AIR STORAGE/HIGH TEMPERATURE/SOLAR ENERGY
- 178 TITLE.....: CYCLOCONVERTER-CONTROLLED SYNCHRONOUS MACHINES FOR LOAD
COMPENSATION ON AC POWER SYSTEMS
AUTHORS.....: FINLAYSON, P. T. / WASHBURN, D. C.
ORGANIZATION: WESTINGHOUSE ELECTRIC CORP.
ADDRESS.....: BUFFALO, N.Y.
SOURCE.....: IEEE TRANS. IND. APPL., IA-10, 6, 806.
PUBL. DATE...: NOV 1974
TYPE.....: JOURNAL
PUBLISHER....: IEEE
KEYWORDS.....: ALTERNATING CURRENT/ CONTROL SYSTEMS/ ELECTRIC POWER/
ENERGY STORAGE/ ENGINEERING/ FLYWHEELS/ POWER DEMAND/
TRANSIENTS/ VARIATIONS
- 179 TITLE.....: ELECTRIC POWER SYSTEMS
SUBTITLE.....: C-3 ENERGY STORAGE, TRANSMISSION AND DISTRIBUTION, ELECTRIC
POWER APPARATUS AND SYSTEMS
AUTHORS.....: ERDA
ORGANIZATION: USAEC
ADDRESS.....: WASHINGTON, D.C.
SOURCE.....: TID--26756
PUBL. DATE...: NOV 11 1974
CATEGORY.....: ADMINISTRATION ELECTRONICS AND ELECTRICAL ENGINEERING
ENERGY SOURCES

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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III FLYWHEELS IN UTILITIES

- 179 TITLE.....: ELECTRIC POWER SYSTEMS (CONTD.)
KEYWORDS.....: MANAGEMENT/PLANNING/RESEARCH PROGRAMS/ELECTRIC
BATTERIES/ENERGY STORAGE/FLYWHEELS / HYDROGEN/MAGNET
COILS/PRODUCTION/EHV SYSTEMS/ HVDC SYSTEMS/POWER
TRANSMISSION/ POWER TRANSMISSION LINES/SUPERCONDUCTING
CABLES/UNDERGROUND POWER TRANSMISSION/
- 180 TITLE.....: SKAGIT NUCLEAR POWER PROJECT, UNITS 1 AND 2. LICENSE
APPLICATION
SUBTITLE.....: PSAR VOLUME 4 DESIGN OF STRUCTURES, COMPONENTS, EQUIPMENT, AND
SYSTEMS COOLANT SYSTEMS AND ENGINEERED SAFETY FEATURES

AUTHORS.....: PUGET SOUND POWER AND LIGHT CO.

ORGANIZATION: PUGET SOUND POWER AND LIGHT CO.
ADDRESS.....: BELLEVUE, WASH. (USA)

SOURCE.....: DOCKET-STN-50522--27 DOCKET-STN-50523--27
PUBL. DATE...: 1975

KEYWORDS.....: CONCRETES/CONTAINMENT/COOLANT CLEANUP
SYSTEMS/DESIGN/ELECTRICAL EQUIPMENT/ENGINEERED SAFETY
SYSTEMS/FEEDWATER/FLOODS / FLOW REGULATORS / FLYWHEELS /
FOUNDATIONS /HYDRAULICS/INSPECTION/ISOLATION/LEAK
TESTING/MECHANICAL STRUCTURES /MISSILE PROTECTION /
PIPELINES / POWER GENERATION/PRESSURE VESSELS/PUMPS/REACTOR
COMPONENTS/REACTOR COOLING SYSTEMS/REACTOR
CORES/RUPTURES/SEISMIC EFFECTS/SKAGIT-1 REACTOR/SKAGIT-2
REACTOR/STEAM LINES/TORNADOES/TRANSIENTS/VENTILATION/WIND/
- 181 TITLE.....: ENERGY STORAGE

AUTHORS.....: KALHAMMER, F. R. / COOPER, V. R.

ORGANIZATION: EPRI
ADDRESS.....: PALO ALTO, CA

SOURCE.....: EPRI RESEARCH PROGRESS REPORT FF2, 11-17
PUBL. DATE...: JAN 1975

KEYWORDS.....: ELECTRIC POWER RESEARCH INST./ ENERGY STORAGE R & D/
FLYWHEELS/ BATTERIES/ PEAK LOAD MANAGEMENT/ PUMPED STORAGE/
COMPRESSED AIR/ THERMAL ENERGY STORAGE/ SUPERCONDUCTING
MAGNETS/ ECONOMICS/ ENERGY STORAGE FLYWHEELS/UTILITIES/OFF-
PEAK ENERGY/BATTERIES/PUMPED STORAGE/ COMPRESSED
AIR/THERMAL ENERGY/SUPER CONDUCTING MAGNETS

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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III FLYWHEELS IN UTILITIES

- 182 TITLE.....: THREE MILE ISLAND NUCLEAR STATION,UNIT 2,RO INSPECTION
REPORT NO.75-01 AND CORRESPONDENCE
SUBTITLE.....: INSPECTION OF CONSTRUCTION ACTIVITIES AND RECORDS
AUTHORS.....: METROPOLITAN EDISON CO.
ORGANIZATION: METROPOLITAN EDISON CO.
ADDRESS.....: READING,PA.(USA)
SOURCE.....: DOCKET-50320--131
PUBL. DATE...: JAN 31 1975
PUBLISHER...: 31 JAN 1975

KEYWORDS.....: CONTAINMENT SPRAY SYSTEMS
/FLYWHEELS/INSPECTION/MODIFICATIONS/PUMPS/REACTOR
INTERNALS/RESTRAINTS/THREE MILE ISLAND-2 REACTOR/ULTRASONIC
TESTING/
- 183 TITLE.....: ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING
INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH-
ENERGY,SPACE-BASED LASERS
AUTHORS.....: GILBERT,J.S./KERN,E.A.
ORGANIZATION: LOS ALAMOS SCIENTIFIC LAB.
ADDRESS.....: N.MEX.(USA)
SOURCE.....: LA--5837-MS
CONTRACT #...: W-7405-ENG-36
PUBL. DATE...: FEB 1975

CATEGORY.....: ENERGY SOURCES
KEYWORDS.....: ELECTRIC GENERATORS/ENERGY
STORAGE/FLYWHEELS/INDUCTION/LASERS/POWER
SUPPLIES/SUPERCONDUCTING MAGNETS/
- 184 TITLE.....: UTILITIES EYE LARGE-SCALE ENERGY STORAGE
AUTHORS.....: RICCI, L. J.

SOURCE.....: CHEMICAL ENGINEERING, FEB. 3, 1975, P. 24.
PUBL. DATE...: FEB 03 1975
TYPE.....: PERIODICAL

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III FLYWHEELS IN UTILITIES

- 184 TITLE.....: UTILITIES EYE LARGE-SCALE ENERGY STORAGE (CONTD.)
KEYWORDS.....: UTILITIES/OFF-PEAK STORAGE/FLYWHEELS/BATTERIES/HYDROGEN
GENERATORS/SUPERCONDUCTING MAGNETS
- 185 TITLE.....: ENERGY STORAGE BY FLYWHEELS
AUTHORS.....: FULLMAN, R. L.
ORGANIZATION: GENERAL ELECTRIC CO.
ADDRESS.....: CORPORATE RESEARCH AND DEVELOPMENT, SCHENECTADY, N. Y.
SOURCE.....: REPORT NO. 75CRD051
PUBL. DATE...: APR 1975
TYPE.....: REPORT

KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/FLYWHEEL DESIGN/ECONOMICS
- 186 TITLE.....: STORING ELECTRICAL ENERGY ON A LARGE SCALE
AUTHORS.....: GARDNER,G.C./HART,A.B./MOFFITT,R.D./WRIGHT,J
ORGANIZATION: CENTRAL ELECTRICITY RESEARCH LABS
ADDRESS.....: LEATHERHEAD,ENG.
SOURCE.....: CEGB RES./2/MAY 1975/12-20/
PUBL. DATE...: MAY 1975

KEYWORDS.....: AIR /COMPRESSION/COST/ECONOMICS/ELECTRIC BATTERIES/ELECTRIC
POWER/FEEDWATER HEATERS/FLYWHEELS/NUCLEAR POWER/NUCLEAR
POWER PLANTS/OFF-PEAK ENERGY STORAGE/OPERATION/PLANNING/
SUPERCONDUCTING MAGNETS/WATER RESERVOIRS/
- 187 TITLE.....: DIGEST OF CURRENT RESEARCH IN THE ELECTRIC UTILITY INDUSTRY
AUTHORS.....: EPRI
ORGANIZATION: ELECTRIC POWER RESEARCH INST.
ADDRESS.....: 3412 HILLVIEW AVE., PALO ALTO, CA. 94304
PUBL. DATE...: MAY 1975
TYPE.....: REPORT
PUBLISHER....: EPRI

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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III FLYWHEELS IN UTILITIES

- 187 TITLE.....: DIGEST OF CURRENT RESEARCH IN THE ELECTRIC UTILITY INDUSTRY (CONTD.)
KEYWORDS.....: AIR POLLUTION/ AQUACULTURE/ ELECTRIC BATTERIES/ ELECTRIC
POWER/ ELECTRIC-POWERED VEHICLES/ ENVIRONMENTAL EFFECTS/
FLYWHEELS/ FOSSIL FUELS/ FUEL CELLS/ GEOTHERMAL POWER
PLANTS/ HYDROELECTRIC POWER/ INFORMATION/
MAGNETOHYDRODYNAMICS/ NUCLEAR POWER/ POWER TRANSMISSION/
PUBLIC UTILITIES/ RESEARCH PROGRAMS/ SOLAR POWER PLANTS
- 188 TITLE.....: SUPERFLYWHEEL FOR STORING ENERGY FROM OTEC PLANTS
AUTHORS.....: RABENHORST, D. W. / DUGGER, G. L.
EDITOR.....: DUGGER, G. L.
ORGANIZATION: JOHNS HOPKINS UNIV.
ADDRESS.....: LAUREL, MD.
SOURCE.....: APL/JHU-SR-75-2. ALSO: CONF-750579. PROCEEDINGS, THIRD
WORKSHOP ON OCEAN THERMAL ENERGY CONVERSION (OTEC)
PUBL. DATE...: MAY 08 1975
TYPE.....: REPORT
CONFERENCE...: WORKSHOP ON OCEAN THERMAL ENERGY CONVERSION
LOCATION.....: HOUSTON, TEXAS
DATE.....: 8 MAY, 1975
KEYWORDS.....: DESIGN/ ENERGY STORAGE/ FEASIBILITY STUDIES/ FLYWHEELS/ OFF-
PEAK ENERGY STORAGE/ SOLAR SEA POWER PLANTS/ OTEC/ OCEAN
THERMAL ENERGY CONVERSION
- 189 TITLE.....: ENERGY STORAGE DEVICE
AUTHORS.....: TIN, W.C.
SOURCE.....: BRITISH PATENT 1,395,304. FILED DATE 28 JUL 1973.
PUBL. DATE...: MAY 21 1975
TYPE.....: PATENT
KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/HYBRID
- 190 TITLE.....: ENERGY STORAGE FOR WIND ENERGY CONVERSION SYSTEMS
AUTHORS.....: ZLOTNICK, M.
ORGANIZATION: ERDA

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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III FLYWHEELS IN UTILITIES

- 190 TITLE.....: ENERGY STORAGE FOR WIND ENERGY CONVERSION SYSTEMS (CONTD.)
SOURCE.....: PRESENTED AT ERDA/NSF 2ND WIND ENERGY CONVERSION SYSTEM
WORKSHOP, WASH. D.C.
PUBL. DATE...: JUN 09 1975
TYPE.....: TECHNICAL FEATURE
- KEYWORDS.....: WIND ENERGY/ ENERGY STORAGE/ FLYWHEELS/ COMPRESSED AIR/
PUMPED STORAGE/ BATTERIES/ CONF PAPER
- 191 TITLE.....: TECHNICAL ASSESSMENT OF ENERGY STORAGE TECHNOLOGIES
AUTHORS.....: SCHNEIDER, T. R.
ORGANIZATION: PUBLIC SERVICE ELECTRIC AND GAS CO.
ADDRESS.....: NEWARK,NJ
SOURCE.....: AM.NUCL.SOC.TRANS., P. 145
PUBL. DATE...: JUN 21 1975
CONFERENCE...: AMERICAN NUCLEAR SOCIETY 1975 ANNUAL MEETING
LOCATION.....: NEW ORLEANS,LA
DATE.....: 8 JUN 1975
- KEYWORDS.....: ENERGY STORAGE COMPARISON/PUMPED HYDRO/COMPRESSED AIR
TURBINE/ BATTERIES/FLYWHEEL/CHEMICAL/THERMAL/ECONOMICS
TECHNOLOGY
- 192 TITLE.....: FOSSIL FUEL AND ADVANCED SYSTEMS DIVISION.RESEARCH PROGRESS
REPORT FF-3
SUBTITLE.....: REVIEW OF MAJOR PROJECTS
AUTHORS.....: ELECTRIC POWER RESEARCH INST.
ORGANIZATION: ELECTRIC POWER RESEARCH INST.
ADDRESS.....: PALO ALTO,CALIF.(USA)
SOURCE.....: EPRI-FF--3
PUBL. DATE...: JUL 1975
TYPE.....: STAFF REPORTS
- KEYWORDS.....: COAL /COAL GASIFICATION/COAL LIQUEFACTION/COAL
MINING/COMBINED CYCLES/CONTROL/CORROSION/DESULFURIZATION/
ELECTRIC BATTERIES/ENERGY STORAGE/EROSION/FLUE
GAS/FLUIDIZED-BED COMBUSTION/FLYWHEELS/GAS TURBINES/
GEOTHERMAL ENERGY/METALS/MHD GENERATORS/NITROGEN
OXIDES/REMOVAL/ SCRUBBERS/SOLAR ENERGY/SULFUR OXIDES/
THERMONUCLEAR REACTORS/

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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III FLYWHEELS IN UTILITIES

- 193 TITLE.....: DEVELOPMENT OF HIGH-DENSITY INERTIAL-ENERGY STORAGE FINAL
REPORT
AUTHORS.....: GORDON, H. S.
SOURCE.....: (PB-245998/0; EPRI-269-1) AVAIL: NTIS HC \$6.00 CSCL 10C
PUBL. DATE...: JUL 1975
KEYWORDS.....: FLYWHEEL/FLYWHEEL DEVELOPMENT/FIBER COMPOSITES
- 194 TITLE.....: REPETITIVE PLASMA FOCUS POWERED BY A APPROX. 200 MJ
FLYWHEEL GENERATOR.
AUTHORS.....: NARDI, V.
ORGANIZATION: ARGONNE NATIONAL LAB.
ADDRESS.....: ARGONNE, ILL.
SOURCE.....: CONF-750723 PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON
RADIATION TEST FACILITIES FOR THE CTR SURFACE AND MATERIALS
PROGRAM. ALSO: ANL/CTR-75-4
PUBL. DATE...: JUL 15 1975
PUBLISHER....: ANL. ALSO: ERDA, DIV. OF CONTROLLED THERMONUCLEAR RESEARCH,
AND AVOGADRO ENERGY SYSTEMS, INC., JAMAICA, N.Y.
CONFERENCE...: INTERNATIONAL CONFERENCE ON RADIATION TEST FACILITIES FOR
THE CTR SURFACE AND MATERIALS PROGRAM
LOCATION.....: ARGONNE, ILL.
DATE.....: 15 JULY, 1975
KEYWORDS.....: DEUTERIUM/ ELECTRODES/ FLYWHEELS/ NEUTRON SOURCES/
PERFORMANCE/ PLASMA FOCUS DEVICES
- 195 TITLE.....: AC/DC POWER CONDITIONING AND CONTROL EQUIPMENT FOR ADVANCED
CONVERSION AND STORAGE TECHNOLOGY.
AUTHORS.....: WOOD, P. / PELLY, B. R.
ORGANIZATION: WESTINGHOUSE ELECTRIC CORP.
SOURCE.....: ELECTRIC POWER RESEARCH INST. REPORT 390-1-1
PUBL. DATE...: AUG 1975
TYPE.....: REPORT
KEYWORDS.....: UTILITIES/AC-DC POWER CONVERSION/CONTROL/ECONOMICS/ ENERGY
STORAGE/BATTERIES/INVERSION

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III FLYWHEELS IN UTILITIES

- 196 TITLE.....: REACTOR COOLANT PUMP FLYWHEEL INTEGRITY
AUTHORS.....: NUCLEAR REGULATORY COMM.
ORGANIZATION: NUCLEAR REGULATORY COMMISSION, OFFICE OF STANDARDS
DEVELOPMENT
ADDRESS.....: WASHINGTON, D.C. (USA)
SOURCE.....: (REG G--1.14 (REV.1) (8-75))
PUBL. DATE...: AUG 1975

KEYWORDS.....: FAILURES/FLYWHEELS/POWER REACTORS/PRIMARY COOLANT CIRCUITS/
PUMPS/REGULATORY GUIDES/
- 197 TITLE.....: POWER PLANT
AUTHORS.....: ARIGA, H.

SOURCE.....: US PATENT 3,898,794 FILED DATE 26 MAR 1973
PUBL. DATE...: AUG 12 1975
TYPE.....: PATENT
ASSIGNED.....: NISSAN MOTOR CO. LTD., JAPAN

KEYWORDS.....: VEHICLES/HYDROGEN PEROXIDE TURBINE/FLYWHEEL
- 198 TITLE.....: KINETIC ENERGY STORAGE OF OFF-PEAK ELECTRICITY
AUTHORS.....: SIMPSON, L. A. / OLDAKER, I. E. / STERMSCHEG, J.
ORGANIZATION: ATOMIC ENERGY OF CANADA LTD., WHITESHELL NUCLEAR RESEARCH
ESTABLISHMENT
ADDRESS.....: PINAWA, MANITOBA, CAN.
SOURCE.....: AECL-5116
PUBL. DATE...: SEP 1975
TYPE.....: REPORT
PUBLISHER....: AECL

KEYWORDS.....: COMPOSITE MATERIALS/ COST/ DESIGN/ ELECTRIC POWER/ ENERGY
LOSSES/ FLYWHEELS/ OFF-PEAK ENERGY STORAGE

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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III FLYWHEELS IN UTILITIES

- 199 TITLE.....: AN EVALUATION OF THE FUTURE ROLE OF STORAGE TECHNIQUES IN
ELECTRIC POWER TECHNOLOGY
AUTHORS.....: PEZDIRTZ, G. F.
ORGANIZATION: ERDA, DIV. OF CONSERVATION RESEARCH AND TECHNOLOGY.
SOURCE.....: PRESENTED AT INTL. ENERGY ENGINEERING CONGRESS, CHICAGO
PUBL. DATE...: NOV 04 1975
CONFERENCE...: INTL. ENERGY ENGINEERING CONGRESS, CHICAGO, ILL., SESSION
C9C
KEYWORDS.....: SOLAR ENERGY STORAGE/ BATTERIES/ FLYWHEELS/ PUMPED STORAGE/
FUEL CELLS/ COMPRESSED AIR/ THERMAL STORAGE/ AUTOMOBILE
ENERGY USAGE/ ENERGY, PRE-20TH CENTURY/ CONF PAPER
UTILITIES/ENERGY STORAGE/BATTERIES/FLYWHEEL/SOLAR
ENERGY/PUMPED STORAGE/COMPRESSED AIR/VEHICLES
- 200 TITLE.....: PROPOSED TFTR ELECTRICAL SYSTEM
AUTHORS.....: BRONNER, G. / MURRAY, J.
ORGANIZATION: PRINCETON UNIV., PLASMA PHYSICS LAB., N.J.
SOURCE.....: CONF-751125-91
PUBL. DATE...: NOV 17 1975
TYPE.....: PROCEEDINGS
CONFERENCE...: IEEE 6.SYMPOSIUM ON ENGINEERING PROBLEMS OF FUSION RESEARCH
LOCATION.....: SAN DIEGO, CA.
DATE.....: 17 NOV., 1975
KEYWORDS.....: ENERGY STORAGE/ FLYWHEELS/ POWER SUPPLIES/ POWER
TRANSMISSION/ RECTIFIERS/ TFTR DEVICE
- 201 TITLE.....: ECONOMIC AND TECHNICAL FEASIBILITY STUDY FOR ENERGY STORAGE
FLYWHEELS
AUTHORS.....: ROCKWELL INTERNATIONAL, SPACE DIV.
SOURCE.....: SD 75-SA-0166, DEC. 1975
PUBL. DATE...: DEC 1975

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III FLYWHEELS IN UTILITIES

- 202 TITLE.....: FLYWHEELS - POWER ON THE FLY
AUTHORS.....: MECH. ENG.

SOURCE.....: MECH ENG 97:50 DECEMBER 1975
PUBL. DATE...: DEC 1975
- 203 TITLE.....: LLL PROGRAM FOR COMPOSITE FLYWHEEL
AUTHORS.....: CHIAO, T. T. / STONE, R. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550

SOURCE.....: UCRL-77567
PUBL. DATE...: DEC 15 1975
TYPE.....: REPORT
PUBLISHER....: LLL

CONFERENCE...: FLYWHEEL TECHNOLOGY SYMPOSIUM
LOCATION.....: BERKELEY, CA.
DATE.....: 10 NOV 1975

KEYWORDS.....: COMPOSITE MATERIALS/ ENERGY STORAGE/ FLYWHEELS/ MATERIALS/
RESEARCH PROGRAMS
- 204 TITLE.....: ENERGY STORAGE - FEASIBILITY STUDY OF AN EXPERIMENT INVOLV-
ING SOLAR ENERGY COLLECTION, ITS STORAGE BY A SUPER
FLYWHEEL, AND ELECTRIC POWER GENERATION.

AUTHORS.....: TATRY, B.

SOURCE.....: L'AERONAUTIQUE ET L'ASTRONAUTIQUE, NO. 56, 46-51.
PUBL. DATE...: 1976

KEYWORDS.....: FLYWHEEL/UTILITIES/ENERGY STORAGE/SOLAR
ENERGY/SUPERFLYWHEEL/ COMPOSITE MATERIALS
- 205 TITLE.....: WHEN DO ELECTRIC STORAGE DEVICES MAKE ECONOMIC SENSE?
AUTHORS.....: BRAUN, C. / CHERNIAVSKY, E. A. / SALZANO, F. J.

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III FLYWHEELS IN UTILITIES

- 205 TITLE.....: WHEN DO ELECTRIC STORAGE DEVICES MAKE ECONOMIC SENSE? (CONTD.)
ORGANIZATION: BROOKHAVEN NATIONAL LABORATORY
ADDRESS.....: UPTON, N.Y.

SOURCE.....: (1, 2, WIN 1976)=(24)
PUBL. DATE...: 1976

KEYWORDS.....: PUMPED STORAGE/UTILITIES/HYDROGEN/MAGNETIC/COMPRESSED AIR/
FLYWHEELS/BATTERIES
- 206 TITLE.....: MECHANICAL CAPACITOR
AUTHORS.....: KIRK, JAMES A. / STUDER, PHILIP A. / EVANS, HAROLD E.

SOURCE.....: (NASA-TN-D-8185: G-7639) AVAIL: NTIS HC \$4.50 CSCL 10C
PUBL. DATE...: MAR 1976

KEYWORDS.....: FLYWHEELS/MECHANICAL CAPACITOR/ENERGY STORAGE/FLYWHEEL
DESIGN
- 207 TITLE.....: ASSESSMENT OF THE STATE-OF-THE-ART OF FEEDING WIND-
GENERATED ELECTRICITY INTO UTILITY POWER GRIDS
AUTHORS.....: REED, J. J.
ORGANIZATION: TETRA TECH INC.
ADDRESS.....: ARLINGTON, VA.

SOURCE.....: TETRAT-A-642-76-240
CONTRACT #...: N00014-76-C-0239
PUBL. DATE...: MAR 08 1976
TYPE.....: TECHNICAL REPT.

KEYWORDS.....: ELECTRIC GENERATORS/ WIND/ POWER DISTRIBUTION/ ENERGY
STORAGE/ TRANSMISSION LINES/ COMPRESSED AIR/ FLYWHEELS/
HYDROGEN/ ELECTRIC BATTERIES/ FUEL CELLS
- 208 TITLE.....: ENERGY STORAGE
AUTHORS.....: CASAZZA, J. A. / SCHNEIDER, T. R. / SULZBERGER, V. T.
ORGANIZATION: PUBLIC SERVICE ELECTRIC AND GAS CO.

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

208 TITLE.....: ENERGY STORAGE (CONTD.)
SOURCE.....: PRESENTED AT ENERGY TECHNOLOGY 3RD CONF, WASH DC, MAR 29-31,
1976.
PUBL. DATE...: MAR 29 1976
TYPE.....: TECHNICAL FEATURE

KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/UTILITIES/ECONOMICS

209 TITLE.....: ENERGY ON CALL: A MORE EFFICIENT PEAKING SYSTEM WOULD
EXPLOIT THE ADVANTAGES OF ENERGY STORAGE, WHILE CONSERVING
CAPITAL AND RESOURCES

AUTHORS.....: CASAZZA, J. A. / SCHNEIDER, T. R. / SULZBERGER, V. T.

ORGANIZATION: PUBLIC SERVICE ELECTRIC AND GAS CO.
ADDRESS.....: NEWARK, N.J.

SOURCE.....: IEEE SPECTRUM 13, 6, JUN 1976, 45-47
PUBL. DATE...: JUN 1976
TYPE.....: JOURNAL ART.
PUBLISHER....: IEEE

KEYWORDS.....: ENERGY STORAGE/ECONOMICS/OFF-PEAK STORAGE

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

- 210 TITLE.....: AN ELECTRO-MECHANICAL ENERGY STORAGE SYSTEM FOR SPACE APPLICATION
AUTHORS.....: ROES, J. B.
ORGANIZATION: GENERAL DYNAMICS CORP.
ADDRESS.....: SAN DIEGO, CA.
SOURCE.....: PROG. ASTRONAUT. AERONAUT. 3, 1961, 613-622 ENERGY CONVERSION FOR SPACE POWER
PUBL. DATE...: 1961
TYPE.....: JOURNAL BOOK (ACADEMIC PRESS)

KEYWORDS.....: BEARINGS/ DESIGN/ ELECTROMAGNETS/ ENERGY STORAGE/ FLYWHEELS/ INVERTERS/ LEVITATION/ RECTIFIERS/ SPACECRAFT POWER SUPPLIES/ SPECIFICATIONS/ TRANSFORMERS ENERGY STORAGE/FLYWHEELS/SPACECRAFT POWER SUPPLY/MAGNETICALLY SUSPENDED FLYWHEELS
- 211 TITLE.....: MAGNETIC BEARINGS FOR AEROSPACE APPLICATIONS
AUTHORS.....: EDGAR, R. F. / ET AL.

SOURCE.....: TDR 63-474, FOR WRIGHT PATTERSON AFB, OHIO, 1963.
PUBL. DATE...: 1963
TYPE.....: REPORT

KEYWORDS.....: BEARINGS/AEROSPACE VEHICLES/FRICTIONLESS SUPPORT/ MAGNETOHYDRODYNAMICS
- 212 TITLE.....: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS FOR AIRCRAFT ACTUATION FUNCTIONS
AUTHORS.....: NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.

SOURCE.....: NA-66-1142-2, QUART TECH RPT NO 2, 1 OCT- 31 DEC 1966
CONTRACT #...: AF33(615)-5173
PUBL. DATE...: JAN 12 1967

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

- 213 TITLE.....: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS
FOR AIRCRAFT ACTUATION FUNCTIONS

AUTHORS.....: NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.

SOURCE.....: NA-66-1142-3, QUART TECH RPT NO 3, 1 JAN - 31 MAR 1967
CONTRACT #...: AF33(615)-5173
PUBL. DATE...: APR 10 1967
- 214 TITLE.....: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS
FOR AIRCRAFT ACTUATION FUNCTIONS

AUTHORS.....: NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.

SOURCE.....: NA-66-1142-4, QUART TECH RPT NO 4, 1 PAR - 30 JUN 1967
CONTRACT #...: AF33(615)-5173
PUBL. DATE...: JUL 10 1967
- 215 TITLE.....: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS
FOR AIRCRAFT ACTUATION FUNCTIONS

AUTHORS.....: NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.

SOURCE.....: NA-66-1142-5, QUART TECH RPT NO 5, 1 JULY - 30 SEP 1967
CONTRACT #...: AF33(615)-5173
PUBL. DATE...: OCT 10 1967
- 216 TITLE.....: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS
FOR AIRCRAFT ACTUATION FUNCTIONS

AUTHORS.....: HELSLEY, C. W. / CALL, B. J.

ORGANIZATION: NORTH AMERICAN ROCKWELL, LOS ANGELES DIV.

SOURCE.....: REPORT NO. NA-67-964, PREPARED FOR AIR FORCE SYSTEMS
COMMAND, WRIGHT-PATTERSON AFB, OHIO, DEC. 1967.
PUBL. DATE...: DEC 1967
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IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

- 216 TITLE.....: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS (CONTD.)
KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/UTILITIES/PEAK ENERGY DEMANDS
- 217 TITLE.....: WEIGHT IS SAVED WHEN FLYWHEEL ENERGY STORAGE UNIT
SUPPLEMENTS AIRCRAFT SECONDARY POWER SYSTEMS.
AUTHORS.....: HELSLEY, C. W.
SOURCE.....: SAE J. VOL 77, P 64, JAN 1969.
PUBL. DATE...: JAN 1969
- 218 TITLE.....: A GREASE-LUBRICATED HYDRODYNAMIC BEARING SYSTEM FOR A
SATELLITE FLYWHEEL
AUTHORS.....: REINHOUDT, J. P.
SOURCE.....: LUBRICATION ENGINEERING, MAR. 1970, P. 95.
PUBL. DATE...: MAR 1970
TYPE.....: JOURNAL
KEYWORDS.....: FLYWHEELS/POWER SUPPLY/SPACECRAFT
- 219 TITLE.....: SATELLITE FLYWHEEL
AUTHORS.....: BARWELL, L. D. G. / GOWARD, C. D. / KING, A. H. / MORTON D.
F.
ORGANIZATION: BRITISH AIRCRAFT CORP.
ADDRESS.....: STEVENAGE, ENGLAND
SOURCE.....: ESRO-CR-28
CONTRACT #...: ESTEC-568-68
PUBL. DATE...: MAR 1970
TYPE.....: FINAL REPORT
KEYWORDS.....: FLYWHEELS/SPACECRAFT/GAS BEARINGS

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

- 220 TITLE.....: A NEW TECHNICAL IDEA ON FLYWHEELS {NOUVELLE CONCEPTION
TECHNIQUE DES VOLANTS D'INERTIE}
AUTHORS.....: POUBEAU, P.
SOURCE.....: NASA-TT-F-13075, TRANS. INTO ENGLISH FROM NORD-AVIATION
REPORT NO. X.S./010/69 BY SCIENTIFIC TRANSLATION SERVICE,
SANTA BARBARA, CALIF
CONTRACT #...: NASW-2035
PUBL. DATE...: JUN 1970
KEYWORDS.....: FLYWHEEL/SATELLITES/FLYWHEEL SYSTEMS DESIGN
- 221 TITLE.....: SATELLITE FLYWHEEL
AUTHORS.....: BARWELL, L. D. G. / SWAIN, J.
ORGANIZATION: BRITISH AIRCRAFT CORP., GUIDED WEAPONS DIV.
ADDRESS.....: STEVENAGE, ENGLAND
SOURCE.....: ST-5139
CONTRACT #...: ESTEC-568-68-SL
PUBL. DATE...: DEC 1970
TYPE.....: FINAL REPORT
KEYWORDS.....: FLYWHEEL/SPACECRAFT/FLYWHEEL DESIGN/FLYWHEEL CONSTRUCTION/
HYDRODYNAMIC GAS BEARINGS
- 222 TITLE.....: THE DRALLRAD: A FLYWHEEL FOR THE STABILIZATION OF
SYNCHRONOUS SATELLITES
AUTHORS.....: WEHDE, HEINZ
ORGANIZATION: TELDIX LUFTFAHRT-AUSRUESTUNGS G.M.B.H.
ADDRESS.....: HEIDELBERG, WEST GERMANY
SOURCE.....: AGARD AVIONICS IN SPACECRAFT
PUBL. DATE...: SEP 1971
KEYWORDS.....: FLYWHEELS/SPACECRAFT/FLYWHEEL OPTIMIZATION/FLYWHEEL DESIGN

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IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

- 223 TITLE.....: SUMMARY OF GAS BEARING APPLICATIONS IN THE FIELD OF SPACE
ELECTRIC POWER SYSTEMS
AUTHORS.....: DUNN, J. H. / REAM, L. W.
SOURCE.....: 7TH. INTERSOC. ENERGY CONVERSION ENG. CONF., 1972.
PUBL. DATE...: 1972
TYPE.....: CONFERENCE PROCEEDINGS
- 224 TITLE.....: APPLICATION OF ISOTENSOID FLYWHEELS TO SPACECRAFT ENERGY
AND ANGULAR MOMENTUM STORAGE
AUTHORS.....: ADAMS, L. R.
ORGANIZATION: ASTRO RESEARCH CORP.
ADDRESS.....: SANTA BARBARA, CALIF.
SOURCE.....: NASA-CR-1971; ARC-R-423
CONTRACT #...: NAS7-728
PUBL. DATE...: FEB 1972
TYPE.....: FINAL REPORT
KEYWORDS.....: FLYWHEELS/FLYWHEEL DESIGN/ISOTENSOID FLYWHEEL/FLYWHEEL
EVALUATION/CONTROL MOMENT GYROS
- 225 TITLE.....: QUALIFICATION TESTS ON REACTION FLYWHEELS SUPPORTED ON
GREASE-LUBRICATED BEARINGS
AUTHORS.....: BOS, J. G. G.
ORGANIZATION: PHILIPS GLOEILAMPENFABRIEKEN N. V.
ADDRESS.....: EINDHOVEN, NETHERLANDS
SOURCE.....: ESRO-CR-87
CONTRACT #...: ESTEC-1119/70
PUBL. DATE...: JUL 1972
KEYWORDS.....: FLYWHEELS/SPACECRAFT/FLYWHEELS TEMPERATURE DEPENDENCE/
FLYWHEELS- VIBRATION/FLYWHEELS-SHOCK

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IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

- 226 TITLE.....: HIGH PERFORMANCE HELICOPTER HOIST PROGRAM
AUTHORS.....: LAWSON, L. J. / DUDDY, J. H. / GILBERT, R. R. / HELVEY, M.
R. / JACOBSEN, E. H. / RUTH, R. / WADA, W. T.
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO., GROUND VEHICLE SYSTEMS
ADDRESS.....: SUNNYVALE, CALIF.
SOURCE.....: AD-751217; LMSC-D267477; LWL-CR-02M72
CONTRACT #...: DAAD05-72-C-0099
PUBL. DATE...: AUG 1972
TYPE.....: FINAL REPORT

KEYWORDS.....: FLYWHEELS/HELICOPTER/FLYWHEEL CONFIGURATIONS/FLYWHEEL
MATERIALS
- 227 TITLE.....: DYNAMICS OF A SATELLITE WITH A FLYWHEEL AND FLEXIBLE SOLAR
ARRAYS
AUTHORS.....: PFEIFFER, F. / POHL, A.
ORGANIZATION: MESSERSCHMITT-BOLKOW-BLOHM GMBH
ADDRESS.....: MUNICH, W. GERMANY
SOURCE.....: ASTRONAUTICAL RESEARCH (TO BE PUBLISHED)
PUBL. DATE...: 1973
PUBLISHER...: INTERNATIONAL ASTRONAUTICAL FEDERATION
CONFERENCE...: 24. IAF INTERNATIONAL ASTRONAUTICAL CONGRESS INTERNATIONAL
ASTRONAUTICAL FEDERATION, INTERNATIONAL ASTRONAUTICAL
CONGRESS, 24TH PAPER 87
LOCATION.....: BAKU, AZERBAIDZHAN SSR
DATE.....: 7-13 OCT 1973
KEYWORDS.....: FLYWHEELS/SATELLITES/SOLAR CELL ARRAYS/SPACECRAFT POWER
SUPPLIES/ FLYWHEELS/SATELLITES/SOLAR ARRAYS/CALCULATIONS
- 228 TITLE.....: CIRCUIT DESIGN REPORT FOR A MOMENTUM WHEEL MOTOR CURRENT
CONTROL UNIT
AUTHORS.....: HAINES, J. E.
ORGANIZATION: HAWKER SIDDELEY DYNAMICS, LTD.
ADDRESS.....: STEVENAGE, ENGLAND
SOURCE.....: HSD-TN-3868; ESRO-CR(P)-340
CONTRACT #...: ESTEC-1522/71
PUBL. DATE...: 1973

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

- 228 TITLE.....: CIRCUIT DESIGN REPORT FOR A MOMENTUM WHEEL MOTOR CURRENT (CONTD.)
KEYWORDS.....: FLYWHEEL/FLYWHEEL DESIGN/FLYWHEEL RELIABILITY/SPACECRAFT
- 229 TITLE.....: ENVIRONMENTAL TESTS ON DRALLRAD DR 20-6-ZKM
AUTHORS.....: SCHULZ, HANS HOLGER
ORGANIZATION: TELDIX LUFTFAHRT-AUSRUESTUNGS G.M.B.H.
SOURCE.....: ESRO-CR-96
CONTRACT #...: ESTEC-1370/71
PUBL. DATE...: APR 1973

KEYWORDS.....: FLYWHEELS/FLYWHEEL TESTING/SPACECRAFT
- 230 TITLE.....: FURTHER TESTING AND DESIGN IMPROVEMENT OF GREASE LUBRICATED
SPIRAL GROOVE BEARING MOMENTUM WHEEL
AUTHORS.....: BOLLEN, J. A. C.
ORGANIZATION: HOLLANDSE SIGNAALAPPARATEN B. V.
ADDRESS.....: HENGEL, NETHERLANDS
SOURCE.....: FINAL REPORT ESRO-CR(P)-544
PUBL. DATE...: 1974

KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/GREASE BEARING FLYWHEEL/DESIGN AND
MANUFACTURE/FLYWHEEL TESTING
- 231 TITLE.....: INTEGRATED POWER/ATTITUDE CONTROL SYSTEM (IPACS) STUDY.
VOLUME 1: FEASIBILITY STUDIES
AUTHORS.....: NOTTI, J. E. / CORMACK, A. / SCHMILL, W. C.
ORGANIZATION: ROCKWELL INTERNATIONAL, SPACE DIV.
ADDRESS.....: DOWNEY, CALIF.
SOURCE.....: NASA-CR-2383; SD-73-SA-0101-1
CONTRACT #...: NAS1-11732
PUBL. DATE...: APR 1974

KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/COST EFFECTIVENESS/SPACECRAFT/
FLYWHEEL ARRAY

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- 232 TITLE.....: INTEGRATED POWER/ATTITUDE CONTROL SYSTEM (IPACS) STUDY.
VOLUME 2: CONCEPTUAL DESIGNS
AUTHORS.....: NOTTI, J. E. / CORMACK, A. / SCHMILL, W. C.
SOURCE.....: NASA-CR-2384; SD-73-SA-0101-2-VOL-2
PUBL. DATE...: APR 1974
- 233 TITLE.....: DESIGN AND LUBRICATION OF BALL BEARING UNIT FOR FLYWHEELS
AUTHORS.....: AUER, WERNER
ORGANIZATION: TELDIX LUFTFAHRT-AUSRUESTUNGS G.M.B.H.
ADDRESS.....: HEIDELBERG, WEST GERMANY
PUBL. DATE...: APR 09 1974
CONFERENCE...: EUROPEAN SPACE TRIBOLOGY SYMP.
LOCATION.....: FRASCATI, ITALY
DATE.....: APRIL 9-11, 1974
- 234 TITLE.....: THERMAL VACUUM QUALIFICATION TESTS ON A TELDIX DOUBLE-
GIMBALLED MOMENTUM WHEEL
AUTHORS.....: TODD, M. J. / WILSON, N. G.
ORGANIZATION: NATIONAL CENTRE OF TRIBOLOGY
ADDRESS.....: RISLEY, ENGLAND
SOURCE.....: ESRO-EST-1; ESRO-CR(P)-566
CONTRACT #...: ESTEC-1560/72
PUBL. DATE...: AUG 1974
KEYWORDS.....: FLYWHEEL/SATELLITE/POWER SUPPLY/UTILITIES/FLYWHEEL TESTING/
SPACE CRAFT
- 235 TITLE.....: QUALIFICATION AND LIFE TESTING OF A BALL-BEARING FLYWHEEL
AUTHORS.....: TELDIX LUFTFAHRT-AUSRUESTUNGS G.M.B.H.
ORGANIZATION: TELDIX LUFTFAHRT-AUSRUESTUNGS G.M.B.H.
ADDRESS.....: HEIDELBERG, WEST GERMANY

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

235 TITLE.....: QUALIFICATION AND LIFE TESTING OF A BALL-BEARING FLYWHEEL (CONTD.)
SOURCE.....: ESRO-CR(P)-549
CONTRACT #...: ESTEC-1701/72-AA
PUBL. DATE...: NOV 11 1974
TYPE.....: FINAL REPORT

KEYWORDS.....: FLYWHEELS/FLYWHEEL TESTING/LUBRICANT SYSTEMS

236 TITLE.....: APPLICATION SPIRAL-GROOVE BEARINGS ON SPACECRAFT
AUTHORS.....: VANDERWAL, U.
ORGANIZATION: HOLLANDSE SIGNAALAPPARATEN B. V.
ADDRESS.....: HENGELLO, NETHERLANDS
SOURCE.....: CONF-THE EUROPEAN SPACE TRIBOLOGY SYMP., FRASCATI, ITALY
PUBL. DATE...: APR 09 1975

KEYWORDS.....: GREASEBER/SPIRAL-GROOVE BEARING/TEMPERATURE
EFFECTS/FLYWHEELS

237 TITLE.....: STUDY OF DOUBLE GIMBALED MOMENTUM WHEELS IN THE ATTITUDE
AND ORBIT CONTROL SYSTEM OF A GEOSTATIONARY COMMUNICATION
SATELLITE.

AUTHORS.....: BOERSMA, G. / SONNENSCHNEIN, F. J.

SOURCE.....: CONTRACT NIVR-1765, (NLR-TR-75056-U) AVAIL NTIS HC \$4.50
PUBL. DATE...: APR 24 1975

KEYWORDS.....: FLYWHEELS/ATTITUDE CONTROL/SPACECRAFT

238 TITLE.....: MAGNETICALLY SUSPENDED LARGE MOMENTUM WHEEL
AUTHORS.....: SABNIS, A. V. / DENDY, J. B. / SCHMITT, F. M.

SOURCE.....: J. SPACECRAFT AND ROCKETS 12, 420 (JULY 1975)
PUBL. DATE...: JUL 1975

KEYWORDS.....: FLYWHEEL/FLYWHEEL TESTING/SPACECRAFT/MAGNETICALLY SUSPENDED
FLYWHEEL

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IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

- 239 TITLE.....: DESIGN AND TEST OF A FLYWHEEL ENERGY STORAGE UNIT FOR
SPACECRAFT APPLICATION.
AUTHORS.....: CORMACK, A. / NOTTI, J. E. / RUIZ, M. L.
SOURCE.....: IECEC ,75 RECORD, P. 1275
PUBL. DATE...: AUG 18 1975
CONFERENCE...: INTERSOCIETY ENERGY CONVERSION AND ENGINEERING CONF., 10TH.
LOCATION.....: NEWARK, DEL.
DATE.....: AUGUST 18-22, 1975
KEYWORDS.....: ENERGY STORAGE
- 240 TITLE.....: DESIGN AND TESTING OF AN ENERGY FLYWHEEL FOR AN INTEGRATED
POWER/ATTITUDE CONTROL SYSTEM (IPACS)
AUTHORS.....: NOTTI, J. E. / CORMACK, A.
SOURCE.....: AIAA PAPER NO. 75-1107
PUBL. DATE...: AUG 20 1975
CONFERENCE...: AIAA GUIDANCE AND CONTROL CONFERENCE
LOCATION.....: BOSTON, MASS.
DATE.....: AUGUST 20-22, 1975
KEYWORDS.....: FLYWHEEL/SPACE CRAFT/POWER SUPPLY

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V OVERVIEW OF ENERGY RESOURCES

- 241 TITLE.....: RESEARCH AND DEVELOPMENT PROGRAMS. QUARTERLY PROGRESS
REPORT, 1 JAN.--31 MAR. 1971
AUTHORS.....: NOYES, C. F. / WALKER, R. E. / PIRKLE, J.C. / FRAZER, R. /
RUBINSTEIN, N.
ORGANIZATION: JOHNS HOPKINS UNIV., APPLIED PHYSICS LAB.
ADDRESS.....: SILVER SPRINGS, MD.
SOURCE.....: AD-735869
PUBL. DATE...: MAR 31 1971
TYPE.....: REPORT

KEYWORDS.....: CARBON DIOXIDE LASERS/ CARBON MONOXIDE LASERS/ ENERGY
STORAGE/ FLYWHEELS/ MICROELECTRONICS/ RESEARCH PROGRAMS
- 242 TITLE.....: HEAT STORAGE USING ALKALI METAL SALTS, ALKALI EARTH SALTS,
IRON CHLORIDE, ZINC CHLORIDE, BORON OXIDE, AND EUTECTIC
FLUORIDE MIXTURES
AUTHORS.....: SCHROEDER, J.

SOURCE.....: CONFERENCE, SPEICHERSYSTEME FUR SEKUNDARENERGIE STUTGART,
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KEYWORDS.....: ENERGY STORAGE/LATENT HEAT/TRANSITION TEMPERATURE/HIGH
TEMPERATURE/SALTS/EUTECTIC/COMPARISONS
- 243 TITLE.....: ENERGY.VOLUME I.DEMANDS,RESOURCES,IMPACT,TECHNOLOGY,AND
POLICY
AUTHORS.....: PENNER, S. S./ICERMAN, L.

SOURCE.....: ISBN 0-201-05560-0 ISBN 0-201-05561-9 PBK
PUBL. DATE...: 1974
TYPE.....: BOOK COMPILATION OF LECTURE NOTES
PUBLISHER....: ADDISON-WESLEY PUBLISHING COMPANY, INC. READING, PA

KEYWORDS.....: COAL/ENERGY CONVERSION/FISSION/FUSION/SOLAR-ENERGY/OIL
CONSUMPTION/RESOURCES/WORLD DEMAND/ESTIMATED
DEMAND/AVAILABILITY/ PRICING/ECONOMICS/HUBERT'S 1969
ESTIMATE/ALASKAN RESERVES/SHALE OIL/ HYDRO
THERMAL/GEOTHERMAL/TIDAL ENERGY/WIND ENERGY/RECYCLING
HAZARDS/ URBAN TRANSPORTATION

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V OVERVIEW OF ENERGY RESOURCES

- 244 TITLE.....: GOVERNMENT-WIDE REPORT TO OFFICE ON MANAGEMENT AND BUDGET
ON ENERGY STORAGE R AND D PROGRAM STRATEGIES AND
IMPLEMENTATION PLANS
- AUTHORS.....: ERDA/DAT
- ORGANIZATION: USAEC DIVISION OF APPLIED TECHNOLOGY
ADDRESS.....: WASHINGTON, D.C.
- SOURCE.....: TID--26751
PUBL. DATE...: JUN 01 1974
- CATEGORY....: ADMINISTRATION ENERGY CONVERSION ENERGY SOURCES
- KEYWORDS....: BUDGETS/ELECTRIC BATTERIES/ELECTRIC POWER/ENERGY
STORAGE/FLYWHEELS/FUEL CONSUMPTION/FUELS/GOVERNMENT
POLICIES /HYDROELECTRIC
POWER/HYDROGEN/MANAGEMENT/PETROLEUM/POWER PLANTS/POWER
TRANSMISSION/PUBLIC UTILITIES/RESEARCH PROGRAMS /STORAGE/
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- 245 TITLE.....: STORAGE OF HIGH-GRADE ENERGY
- AUTHORS.....: MALLAN, J.V.
- ORGANIZATION: NATIONAL MEASUREMENT LAB.
ADDRESS.....: SYDNEY, AUSTRALIA
- SOURCE.....: SEARCH 5, 9, 418-423
PUBL. DATE...: SEP 1974
- KEYWORDS....: ELECTRIC BATTERIES / FLYWHEELS / HEAT STORAGE/HYDROGEN/OFF-
PEAK ENERGY STORAGE/PUMPED STORAGE/ REVIEWS/TIDAL POWER5/
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- 246 TITLE.....: NINTH WORLD ENERGY CONFERENCE, BRIEF SUMMARY
- AUTHORS.....: LUCCHINI, A.P.
- SOURCE.....: REV. ELECTROTEC. 60, 6, NOV-DEC 1974
PUBL. DATE...: NOV 1974
- KEYWORDS....: EFFICIENCY/ ENERGY CONSUMPTION/ ENERGY SOURCES/ ENERGY
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CONVERSION/ MHD GENERATORS/ SOLAR ENERGY CONVERSION

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V OVERVIEW OF ENERGY RESOURCES

- 247 TITLE.....: ENERGY TECHNOLOGY II (NAVY APPLICATIONS)
 AUTHORS.....: PETZRICK,P.A.
 EDITOR.....: SULLIVAN,T.F.P.(ED.)
 ORGANIZATION: GOVERNMENT INSTITUTES,INC.
 ADDRESS.....: WASHINGTON,DC
 SOURCE.....: ENERGY TECHNOLOGY II, PROCEEDINGS OF THE 2ND ENERGY
 TECHNOLOGY CONFERENCE
 PUBL. DATE...: 1975
 CONFERENCE...: 2.ENERGY TECHNOLOGY CONFERENCE (2)=(2ND)
 LOCATION.....: WASHINGTON,DC
 DATE.....: 12 MAY 1975
 KEYWORDS.....: AIRCRAFT / BUDGETS / COMPRESSED AIR/CRYOGENICS/DEMAND
 FACTORS/ENERGY CONSERVATION/ENERGY POLICY/ENERGY SOURCES/
 ENERGY STORAGE/FLYWHEELS/LOW TEMPERATURE/MILITARY
 EQUIPMENT/RESEARCH PROGRAMS/SEAS/SHIPS/SOLAR ENERGY/ US
 ERDA/VEHICLES/WIND POWER/ ENERGY STORAGE/NAVY/COMPRESSED
 AIR/LOW TEMPERATURE THERMAL/ FLYWHEEL/SOLAR/WIND
 POWER/OCEAN POWER.
- 248 TITLE.....: ENERGY-STORAGE SYSTEMS
 AUTHORS.....: PENNER, S. S. / ICERMAN, L.
 SOURCE.....: ENERGY VOL. II ,P211
 PUBL. DATE...: 1975
 TYPE.....: BOOK
 PUBLISHER....: ADDISON-WESLEY PUBL. CO., READING, MA., 1975
 KEYWORDS.....: CAPACITORS/ COMPRESSED AIR/ DESIGN/ ECONOMICS/ ELECTRIC
 BATTERIES/ ENERGY STORAGE/ FLYWHEELS/ HEAT STORAGE/
 LIQUEFIED NATURAL GAS/ NATURAL GAS/ PETROLEUM/ PROPULSION/
 PUMPED STORAGE/ REVIEWS/ STORAGE/THERMAL ENERGY
 STORAGE/MECHANICAL ENERGY STORAGE/ELECTRICAL-ENERGY
 STORAGE/PUMPED-HYDRAULIC/COMPRESSED AIR/LIQUID
 PETROLEUM/NATURAL GAS/
 FLYWHEELS/ECONOMICS/BATTERIES/VEHICLES/UTILITIES
- 249 TITLE.....: WIND POWER
 SUBTITLE.....: A SIGNIFICANT SOLAR ENERGY RESOURCE
 AUTHORS.....: HERONEMUS,W.E.

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V OVERVIEW OF ENERGY RESOURCES

- 249 TITLE.....: WIND POWER (CONTD.)
 ORGANIZATION: UNIV.OF MASSACHUSETTS
 ADDRESS.....: AMHERST MASS

 SOURCE.....: SPEECH AMERICAN CHEMICAL SOCIETY, APRIL 1975, PHILADELPHIA
 PUBL. DATE...: JUN 1975
 PUBLISHER....: AWARE 57

 CATEGORY....: POSSIBLE STORAGE SYSTEMS
 KEYWORDS....: WIND POWER/SOLAR ENERGY/FLYWHEEL/UTILITIES/ENERGY STORAGE
- 250 TITLE.....: MATERIALS REQUIREMENTS FOR ENERGY GENERATION, CONVERSION, AND
 STORAGE

 AUTHORS.....: JAFFEE, R. I.

 ORGANIZATION: ELECTRIC POWER RESEARCH INST.
 ADDRESS.....: PALO ALTO, CA

 SOURCE.....: AM.CERAM.SOC.BULL. 54 7 , 657
 PUBL. DATE...: JUL 1975

 CONFERENCE...: AMERICAN CERAMIC SOCIETY'S JOINT FALL MEETING OF THE
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 ENGINEERS
 LOCATION....: DENVER, CO
 DATE.....: 18 SEP 1974

 KEYWORDS....: AVAILABILITY/ELECTRIC BATTERIES/ENERGY CONVERSION/ENERGY
 SHORTAGES/ENERGY SOURCES/ENERGY STORAGE/ ENVIRONMENT /
 FLYWHEELS / GAS
 TURBINES/MAGNETOHYDRODYNAMICS/MANAGEMENT/MATERIALS/METALS/MI
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 SOURCES/OIL SHALE/GEOTHERMAL WELLS/SOLAR ENERGY/ENERGY
 CONSERVATION/ENERGY STORAGE/FLYWHEELS/BATTERIES
- 251 TITLE.....: ENERGY STORAGE

 AUTHORS.....: KALHAMMER, F. R. / SCHNEIDER, T. R.

 ORGANIZATION: ELECTRIC POWER RESEARCH INST., PALO ALTO, CALIFORNIA /
 PUBLIC SERVICE ELECTRIC AND GAS CO., NEWARK, N.J.

 SOURCE.....: (311)=(311-43, ED. HOLLANDER, J.M.)
 PUBL. DATE...: 1976
 TYPE.....: SURVEY REPORT

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V OVERVIEW OF ENERGY RESOURCES

- 251 TITLE.....: ENERGY STORAGE (CONTD.)
KEYWORDS.....: ENERGY STORAGE/HYDROELECTRIC/ELECTRIC VEHICLES/UTILITIES/
COMBUSTION TURBINES/TURBINES/BATTERIES/SPACE HEATING/OFF-
PEAK POWER/ SOLAR
POWER/ECONOMICS/TAXING/HYDROGEN/SUPERCONDUCTING MAGNETS
- 252 TITLE.....: ENERGY STORAGE
AUTHORS.....: AMERICAN NUCLEAR SOCIETY, HINSDALE, ILL.

SOURCE.....: PRESENTED AT AMER. NUCL. SOC. CONF. ON ENV. ASPECTS OF
NONCONVENTIONAL ENERGY SOURCES, DENVER, COL.
PUBL. DATE...: FEB 29 1976

CONFERENCE...: CONF. ON ENVIRONMENTAL ASPECTS OF NONCONVENTIONAL ENERGY
SOURCES, DENVER, COL.

KEYWORDS.....: ENERGY STORAGE/ HYDROGEN/ ENV IMPACT ASSESSMENT/ CONF
PAPER/ PUMPED STORAGE/ BATTERIES/ FLYWHEELS/ COMPRESSED
AIR/ SUPERCONDUCTING MAGNETS/ THERMAL STORAGE/ENERGY
STORAGE/ENVIRONMENT/UNCONVENTIONAL ENERGY RESOURCES/NOISE/
BATTERIES/GASEOUS STORAGE/PUMPED HYDROELECTRIC/COMPRESSED
AIR FLYWHEEL/ HYDROGEN/VEHICLES
- 253 TITLE.....: ENERGY AND TECHNOLOGY REVIEW (MONTHLY PROGRESS REPORT 6/76)
AUTHORS.....: SELDEN, R. W.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550

SOURCE.....: UCRL-52000-76-6
PUBL. DATE...: JUN 1976

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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VI FIBER COMPOSITE PROPERTIES

- 254 TITLE.....: SOME INTERESTING ASPECTS OF GENERAL LINEAR VISCOELASTIC DEFORMATION
AUTHORS.....: CHRISTENSEN, R. M. / GOTTENBERG, W. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: TRANS. SOCIETY OF RHEOLOGY 7, 171 (1963).
PUBL. DATE...: 1963
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 255 TITLE.....: VIBRATION OF A 45-DEG. RIGHT TRIANGLE CANTILEVER PLATE BY A GRIDWORK METHOD.
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: AIAA JOURNAL 1, 1790 (1963).
PUBL. DATE...: 1963
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 256 TITLE.....: AN EXPERIMENT FOR DETERMINATION OF THE MECHANICAL PROPERTY IN SHEAR FOR A LINEAR ISOTROPIC VISCOELASTIC SOLID.
AUTHORS.....: CHRISTENSEN, R. M. / GOTTENBERG, W. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: INTERNATIONAL J. OF ENGINEERING SCIENCE 2, 45 (1964).
PUBL. DATE...: 1964
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS

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VI FIBER COMPOSITE PROPERTIES

- 257 TITLE.....: THE DYNAMIC RESPONSE OF A SOLID, VISCOELASTIC SPHERE TO
TRANSLATIONAL AND ROTATIONAL EXCITATION.
AUTHORS.....: CHRISTENSEN, R. M. / GOTTENBERG, W. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: J. OF APPLIED MECHANICS 31, 273 (1964).
PUBL. DATE...: 1964
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 258 TITLE.....: A FRACTURE CRITERION FOR ORTHOTROPIC PLATES UNDER THE
INFLUENCE OF COMPRESSION AND SHEAR
AUTHORS.....: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: DEPT. OF THEORETICAL AND APPLIED MECHANICS REPORT 283,
UNIVERSITY OF ILLINOIS (1965).
PUBL. DATE...: 1965
TYPE.....: REPORT

CATEGORY.....: MECHANICS
- 259 TITLE.....: CRACK EXTENSION IN FIBERGLASS-REINFORCED PLASTICS
AUTHORS.....: WU, E. M. / REUTER, R. C.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: DEPT. OF THEORETICAL AND APPLIED MECHANICS REPORT 275,
UNIVERSITY OF ILLINOIS (1965).
PUBL. DATE...: 1965
TYPE.....: REPORT

CATEGORY.....: MECHANICS

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VI FIBER COMPOSITE PROPERTIES

- 260 TITLE.....: PREDICTION OF THE TRANSIENT RESPONSE OF A LINEAR
VISCOELASTIC SOLID.
AUTHORS.....: CHRISTENSEN, R. M. / GOTTENBERG, W. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: J. OF APPLIED MECHANICS 33, 449 (1966).
PUBL. DATE...: 1966
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 261 TITLE.....: DESIGN FOR COMMERCIAL FILAMENT WINDING
AUTHORS.....: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: SOCIETY OF PLASTICS ENGINEERS JOURNAL, P. 43 (APRIL, 1966)
PUBL. DATE...: APR 1966
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/FILAMENT WINDING
- 262 TITLE.....: APPLICATION OF FRACTURE MECHANICS TO ANISOTROPIC PLATES
AUTHORS.....: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: J. OF APPLIED MECHANICS, TRANSACTIONS OF ASME, 34E:4 (1967)
PUBL. DATE...: 1967
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS

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VI FIBER COMPOSITE PROPERTIES

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CONDITIONS IN LINEAR VISCOELASTICITY.
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: J. OF APPLIED MECHANICS 34, 503 (1967).
PUBL. DATE...: 1967
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 264 TITLE.....: LINEAR NON-ISOTHERMAL VISCOELASTIC SOLIDS
AUTHORS.....: CHRISTENSEN, R. M. / NAGHDI, P. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: ACTA MECHANICA 3, 1 (1967).
PUBL. DATE...: 1967
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 265 TITLE.....: THE TEMPERATURE EFFECT OF INTERNAL AND EXTERNAL PRESSURE OF
TWO ANGLE WOUND PIPE
AUTHORS.....: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: THE SOCIETY OF THE PLASTICS INDUSTRY, INC./ SECTION 20-C
PUBL. DATE...: FEB 1967
TYPE.....: PROCEEDING

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/FILAMENT WINDING/HIGH TEMPERATURE

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VI FIBER COMPOSITE PROPERTIES

- 266 TITLE.....: FRACTURE MECHANICS OF ANISOTROPIC PLATES
AUTHORS.....: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: COMPOSITE MATERIALS WORKSHOP, TECHNOMIC PUBLISHING CO.
PUBL. DATE...: 1968
TYPE.....: BOOK

CATEGORY.....: MECHANICS
- 267 TITLE.....: DISCONTINUOUS MODE OF CRACK EXTENSION IN UNIDIRECTIONAL
COMPOSITES
AUTHORS.....: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: DEPT. OF THEORETICAL AND APPLIED MECHANICS REPORT 309,
UNIVERSITY OF ILLINOIS (1968).
PUBL. DATE...: 1968
TYPE.....: REPORT

CATEGORY.....: MECHANICS
- 268 TITLE.....: ON OBTAINING SOLUTIONS IN NONLINEAR VISCOELASTICITY.
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: J. OF APPLIED MECHANICS 35, 129 (1968).
PUBL. DATE...: 1968
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS

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VI FIBER COMPOSITE PROPERTIES

- 269 TITLE.....: VARIATIONAL AND MINIMUM THEOREMS FOR THE LINEAR THEORY OF
VISCOELASTICITY
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: ZAMP 19, 233 (1968).
PUBL. DATE...: 1968
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 270 TITLE.....: OFF-AXIS TEST OF A COMPOSITE
AUTHORS.....: WU, E. M. / THOMAS, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: J. OF COMPOSITE MATERIALS, OCT. 1968.
PUBL. DATE...: OCT 1968
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 271 TITLE.....: CHARACTERIZATION OF ANISOTROPIC COMPOSITES
AUTHORS.....: HALPIN, J. C. / PAGANO / WHITNEY / WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: COMPOSITE MATERIALS: TESTING AND DESIGN, ASTM (1969).
PUBL. DATE...: 1969
TYPE.....: REPORT

CATEGORY.....: MECHANICS
- 272 TITLE.....: SOME UNIQUE CRACK PROPAGATION PHENOMENA IN UNIDIRECTIONAL
COMPOSITES AND THEIR MATHEMATICAL CHARACTERIZATION

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VI FIBER COMPOSITE PROPERTIES

- 272 TITLE.....: SOME UNIQUE CRACK PROPAGATION PHENOMENA IN UNIDIRECTIONAL (CONTD.)
AUTHORS.....: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON STRUCTURES,
SOLID MECHANICS AND ENGINEERING DESIGN, SOUTHAMPTON, ENG.
PUBL. DATE...: 1969
TYPE.....: PROCEEDINGS

CATEGORY.....: MECHANICS
- 273 TITLE.....: INTERFACIAL FRACTURE PHENOMENA
AUTHORS.....: WU, E. M. / THOMAS, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: PROCEEDINGS OF THE FIFTH INTERNATIONAL CONGRESS ON RHEOLOGY,
KYOTO, JAPAN, 1969.
PUBL. DATE...: 1969
TYPE.....: PROCEEDINGS

CATEGORY.....: MECHANICS
- 274 TITLE.....: VISCOELASTIC PROPERTIES OF HETEROGENEOUS MEDIA
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: J. OF THE MECHANICS AND PHYSICS OF SOLIDS 17, 23 (1969).
PUBL. DATE...: 1969
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 275 TITLE.....: A RANDOM WALK MODEL IN RANDOM VIBRATION
AUTHORS.....: TOLAND, R. H. / YANG, C. Y.

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VI FIBER COMPOSITE PROPERTIES

- 275 TITLE.....: A RANDOM WALK MODEL IN RANDOM VIBRATION (CONTD.)
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: PREPRINT 869, ASCE NATIONAL MEETING ON STRUCTURAL
ENGINEERING, LOUISVILLE, KY, APRIL 1969.
PUBL. DATE...: APR 1969
TYPE.....: PREPRINT

CATEGORY.....: MECHANICS
- 276 TITLE.....: EVALUATION OF HIGH-STRENGTH, HIGH-MODULUS BERYLLIUM OXIDE/
GLASS FIBER

AUTHORS.....: CHIAO, T. T./ LEWIS, A./KIMPLE, R. F.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCID-15593, (DEC., 196
PUBL. DATE...: DEC 1969
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/FIBER STRENGTH
- 277 TITLE.....: A TENSILE TEST METHOD FOR FIBERS

AUTHORS.....: CHIAO, T. T./MOORE, R. L.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: JOURNAL OF COMPOSITE MATERIALS, VOL. 4 P. 118, (JAN./ 1970)
PUBL. DATE...: JAN 1970
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/TENSILE STRENGTH/STRENGTH TESTING

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VI FIBER COMPOSITE PROPERTIES

- 278 TITLE.....: AXISYMMETRIC FILAMENTARY STRUCTURES
AUTHORS.....: FRASER, A. F. / PREISWERK, P. R. / BENTON, M. D. / BURG-
GRAF, O. R.

SOURCE.....: REPORT NO. NASA CR-1518, ASTRO RESEARCH CORP., SANTA
BARBARA, CA. APR. 1970
PUBL. DATE...: APR 1970
TYPE.....: REPORT
- 279 TITLE.....: A GENERAL THEORY OF STRENGTH FOR ANISOTROPIC MATERIALS
AUTHORS.....: TSAI, S. W. / WU, E. M.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: J. COMPOSITE MATERIALS 5, (1971).
PUBL. DATE...: 1971
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 280 TITLE.....: MEASUREMENT AND CONTROL OF DYNAMIC CRACKS IN COMPOSITES.
AUTHORS.....: BRISSEY, F. L. / WU, E. M.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: PROCEEDINGS OF ASME-SESA SYMPOSIUM ON EXPERIMENTAL
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PUBL. DATE...: 1971
TYPE.....: PROCEEDINGS

CATEGORY.....: MECHANICS
- 281 TITLE.....: FRACTURE CRITERIA FOR ORTHOTROPIC PLATE UNDER COMPRESSION
AND SHEAR
AUTHORS.....: WU, E. M.

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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VI FIBER COMPOSITE PROPERTIES

- 281 TITLE.....: FRACTURE CRITERIA FOR ORTHOTROPIC PLATE UNDER COMPRESSION (CONTD.)
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: PROCEEDINGS OF THE 12TH INTERNATIONAL CONGRESS OF APPLIED
MECHANICS (1971).
PUBL. DATE...: 1971
TYPE.....: PROCEEDINGS

CATEGORY.....: MECHANICS
- 282 TITLE.....: THEORY OF VISCOELASTICITY: AN INTRODUCTION
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: ACADEMIC PRESS, 1971.
PUBL. DATE...: 1971
TYPE.....: BOOK

CATEGORY.....: MECHANICS
- 283 TITLE.....: THE EFFECT OF SOLVENTS AND STRESS ON THE STRESS RUPTURE
LIFE OF EPOXY-GLASS COMPOSITES
AUTHORS.....: RUHMANN, D. C. / WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: J. AM. CHEM. SOC. 31, 1 (1971).
PUBL. DATE...: 1971
TYPE.....: JOURNAL

CATEGORY.....: COMPOSITE PROPERTIES
- 284 TITLE.....: STRESS-RUPTURE OF S-GLASS/EPOXY MULTIFILAMENT STRANDS
AUTHORS.....: CHIAO, T. T./MOORE, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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VI FIBER COMPOSITE PROPERTIES

- 284 TITLE.....: STRESS-RUPTURE OF S-GLASS/EPOXY MULTIFILAMENT STRANDS (CONTD.)
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: JOURNAL COMPOSITES MATERIALS VOL. 5 P. 2 (JAN./ 1971)
PUBL. DATE...: JAN 1971
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/STRESS RUPTURE/MULTIFILAMENT
- 285 TITLE.....: STRAIN RATE EFFECT ON THE ULTIMATE TENSILE STRESS OF FIBER/
EPOXY STRANDS
AUTHORS.....: CHIAO, T. T./MOORE, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: JOURNAL COMPOSITE MATERIALS VOL. 5, P. 124, (JAN.,1971)
PUBL. DATE...: JAN 1971
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/STRAIN RATE EFFECT/UNIDIRECTIONAL
COMPOSITES
- 286 TITLE.....: COMPUTER AIDED MECHANICAL TESTING OF COMPOSITES
AUTHORS.....: WU, E. M. / JERINA, K. J.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: J. OF MATERIALS AND STANDARDS (FEB. 1971).
PUBL. DATE...: FEB 1971
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS

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VI FIBER COMPOSITE PROPERTIES

- 287 TITLE.....: FRACTURE TOUGHNESS IN UNIDIRECTIONAL GLASS-REINFORCED
PLASTICS
AUTHORS.....: SANFORD, R. J. / STONESIFER, F. R.
SOURCE.....: J. COMPOSITE MATERIALS 5, 241 (1971).
PUBL. DATE...: APR 1971
TYPE.....: JOURNAL
- 288 TITLE.....: STUDY OF EPOXY RESINS FOR FIBER COMPOSITES
AUTHORS.....: RICHARDSON, J. / MOORE, R. L. / CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT UCID-15857, (JUNE, 1971)
PUBL. DATE...: JUN 1971
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/TENSILE STRENGTH/CRYOGENIC APPLICATIONS
- 289 TITLE.....: A RANDOM WALK MODEL FOR FIRST-PASSAGE PROBABILITY
AUTHORS.....: TOLAND, R. H. / YANG, C. Y.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: J. OF THE ENGINEERING MECHANICS DIV., ASCE 97, 791 (JUNE,
1971).
PUBL. DATE...: JUN 1971
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 290 TITLE.....: KINETIC FAILURE PROCESSES OF POLYMERS
AUTHORS.....: WU, E. M. / HALPIN, J. C.

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 290 TITLE.....: KINETIC FAILURE PROCESSES OF POLYMERS (CONTD.)
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: AMERICAN PHYSICAL SOCIETY, DIV. OF HIGH POLYMER PHYSICS,
1972.
PUBL. DATE...: 1972

CATEGORY.....: MECHANICS
- 291 TITLE.....: STRENGTH TENSORS AND THEIR INVARIANTS - THEORY AND
EXPERIMENT

AUTHORS.....: WU, E. M.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: (BRITISH) J. OF PHYSICS D (1972).
PUBL. DATE...: 1972
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 292 TITLE.....: EFFECTIVE STIFFNESS OF RANDOMLY ORIENTED FIBRE COMPOSITES

AUTHORS.....: CHRISTENSEN, R. M. / WAALS, F. M.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: J. OF COMPOSITE MATERIALS 6, 518 (1972).
PUBL. DATE...: 1972
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 293 TITLE.....: RESTRICTIONS UPON VISCOELASTIC RELAXATION FUNCTIONS AND
COMPLEX MODULI.

AUTHORS.....: CHRISTENSEN, R. M.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 293 TITLE.....: RESTRICTIONS UPON VISCOELASTIC RELAXATION FUNCTIONS AND (CONTD.)
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: TRANS. SOCIETY OF RHEOLOGY 16, 603 (1972).
PUBL. DATE...: 1972
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 294 TITLE.....: EXPERIMENTAL INVESTIGATION OF FRACTURE IN AN ADVANCED FIBER
COMPOSITE

AUTHORS.....: KONISHI, H. J. / SWEDLOW, J. L. / CRUSE, T. A.

SOURCE.....: J. COMPOSITE MATERIALS, V. 6, 114 (1972).
PUBL. DATE...: 1972
TYPE.....: JOURNAL
- 295 TITLE.....: STRENGTH RETENTION OF S-GLASS/EPOXY COMPOSITES

AUTHORS.....: CHIAO, T. T./ MOORE, R. L.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: JOURNAL COMPOSITE MATERIALS, VOL. 6 P. 156, (JAN./ 1972)
PUBL. DATE...: JAN 1972
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/STRENGTH RETENTION
- 296 TITLE.....: FABRICATION AND TESTING OF EPOXY TENSILE SPECIMENS

AUTHORS.....: CHIAO, T. T./ CUMMINS, A. D./MOORE, R. L.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: COMPOSITES, P. 10 (JAN/FEB./ 1972)
PUBL. DATE...: JAN 1972

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- 296 TITLE.....: FABRICATION AND TESTING OF EPOXY TENSILE SPECIMENS (CONTD.)
TYPE.....: JOURNAL
- CATEGORY.....: FIBER COMPOSITES
- KEYWORDS.....: FIBER COMPOSITES/TENSILE PROPERTIES/TESTING METHODS
- 297 TITLE.....: OPTIMAL EXPERIMENTAL MEASUREMENT OF ANISOTROPIC FAILURE
TENSORS
- AUTHORS.....: WU, E. M.
- ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
- SOURCE.....: J. OF COMPOSITE MATERIALS (JA. 1972).
PUBL. DATE...: JAN 1972
TYPE.....: JOURNAL
- CATEGORY.....: MECHANICS
- 298 TITLE.....: ANALYSIS OF STRESS-RUPTURE DATA FROM S-GLASS COMPOSITES
- AUTHORS.....: ROBINSON, E. Y./CHIAO, T. T.
- ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
- SOURCE.....: PROC. 27TH ANNUAL CONFERENCE, SPI REINFORCED PLASTIC/COMPOS
INSTITUTE, SECT. 9-E, FEB./ 1972.
PUBL. DATE...: FEB 1972
TYPE.....: PROCEEDINGS
- CATEGORY.....: FIBER COMPOSITES
- KEYWORDS.....: FIBER COMPOSITES/STRENGTH RETENTION/STRESS RUPTURE
- 299 TITLE.....: STRENGTH OF S-GLASS FIBER
- AUTHORS.....: CHIAO, T. T./MOORE, R. L.
- ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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VI FIBER COMPOSITE PROPERTIES

- 299 TITLE.....: STRENGTH OF S-GLASS FIBER (CONTD.)
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PUBL. DATE...: APR 1972
TYPE.....: JOURNAL
- CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/STRENGTH/FILAMENT WINDING
- 300 TITLE.....: STRESS RUPTURE OF S-GLASS/EPOXY MULTIFILAMENT STRANDS: TIME
-BREAK-DATA.
- AUTHORS.....: CHIAO, T. T./MOORE, R. L.
- ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
- SOURCE.....: LAWRENCE LIVERMORE LAB. REPORT UCRL-51220 (MAY 2, 1972).
PUBL. DATE...: MAY 02 1972
TYPE.....: REPORT
- CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/STRESS RUPTURE/CALCULATIONS
- 301 TITLE.....: FAILURE MODES IN IMPACT LOADED COMPOSITE MATERIALS
- AUTHORS.....: TOLAND, R. H.
- ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
- SOURCE.....: AIME FAILURE MODES IN COMPOSITES SYMPOSIUM, BOSTON, MA, MAY
8-11, 1972.
PUBL. DATE...: MAY 11 1972
TYPE.....: PRESENTED PAPER
- CATEGORY.....: MECHANICS
- 302 TITLE.....: STRESS-RUPTURE OF SIMPLE S-GLASS/EPOXY COMPOSITES
- AUTHORS.....: CHIAO, T. T./ LEPPER, J. K./ HETHERINGTON, N.W./MOORE, R. L.

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 302 TITLE.....: STRESS-RUPTURE OF SIMPLE S-GLASS/EPOXY COMPOSITES (CONTD.)
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: J. OF COMPOSITES MATERIALS, VOL. 6,P. 358 (JULY 1972)
PUBL. DATE...: JUL 1972
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/STRESS RUPTURE/CALCULATIONS
- 303 TITLE.....: NON-STATIONARY RANDOM VIBRATION OF NONLINEAR STRUCTURES
AUTHORS.....: TOLAND, R. H./ YANG, C. Y./ HSU, C. S.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: INTERNATIONAL J. OF NONLINEAR MECHANICS 7, NO. 9 (AUG.1972)
PUBL. DATE...: AUG 1972
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 304 TITLE.....: DESIGN AND ANALYSIS OF THE ATS GRAPHITE EPOXY SATELLITE
TRUSS
AUTHORS.....: BURNS, J. M./ TOLAND, R. H.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: CONFERENCE ON FIBROUS COMPOSITES IN FLIGHT VEHICLE DESIGN,
DAYTON, OH, SEPT. 26, 1972.
PUBL. DATE...: SEP 26 1972
TYPE.....: PRESENTED PAPER

CATEGORY.....: MECHANICS
- 305 TITLE.....: TENSILE PROPERTIES OF PRD-49 FIBER IN EPOXY MATRIX
AUTHORS.....: CHIAO, T. T./MOORE, R. L.

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 305 TITLE.....: TENSILE PROPERTIES OF PRD-49 FIBER IN EPOXY MATRIX (CONTD.)
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: J. OF COMPOSITE MATERIALS, VOL. 6, P. 547 (OCT./ 1972)
PUBL. DATE...: OCT 1972
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES

KEYWORDS.....: FIBER COMPOSITES/TENSILE STRENGTH/FILAMENT WINDING/
TEMPERATURE CHARACTERISTICS/STRAIN RATE
- 306 TITLE.....: ACOUSTIC EMISSION FROM FILAMENT-WOUND PRESSURE BOTTLES
AUTHORS.....: HAMSTAD, M. A.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-73763
PUBL. DATE...: OCT 1972
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
- 307 TITLE.....: ACOUSTIC EMISSION FROM FILAMENT-WOUND PRESSURE BOTTLES
AUTHORS.....: HAMSTAD, M. A.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: PROCEEDINGS OF THE 4TH NATIONAL SAMPE TECHNICAL CONFERENCE,
PALO ALTO, CA, OCT. 1972.
PUBL. DATE...: OCT 1972
TYPE.....: PROCEEDINGS

CATEGORY.....: COMPOSITE PRESSURE VESSEL TECHNOLOGY
- 308 TITLE.....: FIBER STRENGTH OF S-GLASS/EPOXY COMPOSITES UNDER BI-AXIAL
LOADING

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 308 TITLE.....: FIBER STRENGTH OF S-GLASS/EPOXY COMPOSITES UNDER BI-AXIAL (CONTD.)
AUTHORS.....: CHIAO, T. T./COMMINS, A.D.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: PROC.4TH NATIONAL SAMPE TECHNICAL CONFERENCE, OCT.17-19, 19
PALO ALTO, CA
PUBL. DATE...: OCT 17 1972
TYPE.....: PROCEEDINGS

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/UNIAXIAL TENSION/ FIBER PROPERTIES
- 309 TITLE.....: CHARACTERIZATION OF AN EPOXY SYSTEM FOR FILAMENT WINDING
AUTHORS.....: CHIAO, T. T./ALTHOUSE, L. P.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: PROC. 4TH NATIONAL SAMPE TECHNICAL CONFERENCE, OCT. 17-19,1
PALO ALTO, CA
PUBL. DATE...: OCT 17 1972
TYPE.....: PROCEEDING

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/TENSILE STRENGTH/CURE OF EPOXIES
- 310 TITLE.....: FAILURE CRITERIA AND FAILURE ANALYSIS OF COMPOSITE
STRUCTURES
AUTHORS.....: TOLAND, R. H./ VICARIO, A. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: STRUCTURAL DESIGN AND ANALYSIS, VOL. 7, ED. BY C. C. CHAMIS
FOR THE COMPOSITE MATERIALS TREATISE ED. BY KROCK AND
BROUTMAN, ACADEMIC PRESS, 1973.
PUBL. DATE...: 1973
TYPE.....: BOOK CONTRIBUTION

CATEGORY.....: MECHANICS

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MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 311 TITLE.....: DATA AVERAGING OF ANISOTROPIC MATERIAL CONSTANTS
AUTHORS.....: WU, E. M. / JERINA, K. L. / LAVENGOD, R. E.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: ASTM STP 521, 1973.
PUBL. DATE...: 1973
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 312 TITLE.....: A CRITICAL TEST FOR A CLASS OF NONLINEAR CONSTITUTIVE
EQUATIONS
AUTHORS.....: CHRISTENSEN, R. M. / VAN ES, H. E.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: TRANS. SOCIETY OF RHEOLOGY 17, 325 (1973).
PUBL. DATE...: 1973
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 313 TITLE.....: A SPECIAL THEORY OF VISCOELASTIC FLUIDS FOR APPLICATION TO
SUSPENSION.
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: ACTA MECHANICA 16, 183 (1973).
PUBL. DATE...: 1973
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS

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MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 314 TITLE.....: ATTENUATION OF HARMONIC WAVES IN LAYERED MEDIA
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: J. OF APPLIED MECHANICS 40, 155 (1973)
PUBL. DATE...: 1973
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 315 TITLE.....: THE EFFECT OF STRESS ON DIFFUSION IN COMPOSITES -
EXPERIMENTAL OBSERVATIONS.
AUTHORS.....: RUHMANN, D. C. / WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: AMERICAN CHEMICAL SOCIETY, DIV. OF POLYMER CHEMISTRY 14, NO.
1 (1973).
PUBL. DATE...: 1973
TYPE.....: JOURNAL

CATEGORY.....: COMPOSITE PROPERTIES
- 316 TITLE.....: ORGANIC FIBER/EPOXIDE COMPOSITES
AUTHORS.....: CHIAO, T. T./MOORE, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: COMPOSITES P.31, JAN./ 1973.
PUBL. DATE...: JAN 1973
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/PROPERTY EVALUATION

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 317 TITLE.....: FILAMENT-WOUND VESSEL FROM AN ORGANIC FIBER/EPOXY SYSTEM
AUTHORS.....: CHIAO, T. T./MARCON, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: PROC. 28TH ANNUAL CONFERENCE, S.P.I. REINFORCED PLASTICS/
COMPOSITES INSTITUTE, WASHINGTON, D.C., SECT. 9-B. FEB./ 1973
PUBL. DATE...: FEB 1973
TYPE.....: PROCEEDING

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/SHEAR LOADING/STRESS
- 318 TITLE.....: STRESS-RUPTURE BEHAVIOR OF STRANDS OF AN ORGANIC
FIBER/EPOXY MATRIX
AUTHORS.....: CHIAO, T. T./ WELLS, J. E./ MOORE, R. L./HAMSTAD, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: ASTM THIRD SYMPOSIUM ON COMPOSITE MATERIALS: TESTING AND
DESIGN, MARCH 21-22, 1973, WILLIAMSBURG, VIRGINIA, STP 546
PUBL. DATE...: MAR 21 1973
TYPE.....: PROCEEDINGS

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: STRESS RUPTURE/PRD-49-III EPOXY COMPOSITE/WEIBULL ANALYSIS
- 319 TITLE.....: INSTRUMENTED IMPACT TESTING OF CARBON FIBER COMPOSITE
MATERIALS
AUTHORS.....: TOLAND, R. H.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: ASTM SYMPOSIUM ON INSTRUMENTED IMPACT TESTING, PHILADELPHIA
PA, JUNE 1973. ALSO: ASTM STP 563.
PUBL. DATE...: JUN 1973
TYPE.....: PRESENTED PAPER

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MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 319 TITLE.....: INSTRUMENTED IMPACT TESTING OF CARBON FIBER COMPOSITE (CONTD.)
CATEGORY.....: MECHANICS
- 320 TITLE.....: ACOUSTIC EMISSION PRODUCED DURING BURST TESTS OF FILAMENT-
WOUND BOTTLES
AUTHORS.....: HAMSTAD, M. A./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: JOURNAL OF COMPOSITE MATERIALS, VOL. 7, P. 320, JULY 1973.
PUBL. DATE...: JUL 1973
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/NOISE DURING RUPTURE
- 321 TITLE.....: GRAPHITE FIBER/EPOXY COMPOSITES
AUTHORS.....: CHIAO, T. T./ MOORE, R. L./WALKUP, C. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: SAMPE QUARTERLY, VOL. 4, NO. 4, JULY, 1973
PUBL. DATE...: JUL 1973
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/TENSILE STRENGTH/FIBER COMPARISON
- 322 TITLE.....: MATERIALS EVALUATION FOR 2XI1B MAGNET
AUTHORS.....: CHIAO, T. T./ WALKUP, C. M./NEWHEY, H. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCID-16340.
PUBL. DATE...: SEP 10 1973
TYPE.....: REPORT

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MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 322 TITLE.....: MATERIALS EVALUATION FOR 2XIIB MAGNET (CONTD.)
CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/TENSILE STRENGTH/COMPRESSIVE STRENGTH
- 323 TITLE.....: FILAMENT-WOUND VESSELS FROM AN ORGANIC FIBER/EPOXY RESIN
SYSTEM
AUTHORS.....: CHIAO, T. T./ HAMSTAD, M. A./ MARCON, M. A./HANAFEE, JR.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-51466 NOV. 1973
PUBL. DATE...: NOV 1973
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/STRENGTH OF FIBERS/FIBER PROPERTIES
- 324 TITLE.....: STRESS-RUPTURE BEHAVIOR OF GRAPHITE FIBER/EPOXY STRANDS
AUTHORS.....: MOORE, R. L./ CHIAO, T. T./HAMSTAD, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: FUKUGO ZAIRYO (COMPOSITE MATERIALS AND STRUCTURES) VOL.3,
NO. 1 ,P.19, 1974
PUBL. DATE...: 1974
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/LONG TERM PERFORMANCE
- 325 TITLE.....: STRAIN MEASUREMENT TECHNIQUES FOR FIBER MODULUS
DETERMINATION
AUTHORS.....: MOORE, R. L. / LEPPER, J. K.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

325 TITLE.....: STRAIN MEASUREMENT TECHNIQUES FOR FIBER MODULUS (CONTD.)
SOURCE.....: J. OF TESTING AND EVALUATION, VOL.2, NO.3, 1974
PUBL. DATE...: 1974
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES

KEYWORDS.....: FIBERS/TENSILE PROPERTIES/EPOXY RESINS/MODULUS OF
ELASTICITY/STRAIN MEASUREMENT

326 TITLE.....: PHENOMENOLOGICAL ANISOTROPIC FAILURE CRITERION
AUTHORS.....: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: COMPOSITE MATERIALS, VOL. 2, CHAPT. 9, ACADEMIC PRESS.
PUBL. DATE...: 1974
TYPE.....: BOOK CHAPTER

CATEGORY.....: MECHANICS

327 TITLE.....: STRENGTH AND FRACTURE OF COMPOSITES
AUTHORS.....: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: COMPOSITE MATERIALS, VOL. 5, CHAPT. 5, ACADEMIC PRESS.
PUBL. DATE...: 1974
TYPE.....: BOOK CHAPTER

CATEGORY.....: MECHANICS

328 TITLE.....: FAILURE CRITERIA TO FRACTURE MODE ANALYSIS OF COMPOSITE
MATERIALS

AUTHORS.....: WU, E. M.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 328 TITLE.....: FAILURE CRITERIA TO FRACTURE MODE ANALYSIS OF COMPOSITE (CONTD.)
SOURCE.....: PROCEEDINGS OF THE 39TH MEETING OF THE STRUCTURAL AND
MATERIALS PANEL, NATO, 1974.
PUBL. DATE...: 1974
TYPE.....: PROCEEDINGS

CATEGORY.....: MECHANICS
- 329 TITLE.....: PROBABILISTIC DESIGN OF COMPOSITE STRUCTURES
AUTHORS.....: MAXWELL, R./ TOLAND, R. H./ JOHNSON, C. W.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: ASTM STP 580, P. 35, 1974.
PUBL. DATE...: 1974
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 330 TITLE.....: LAMINATE STRENGTH - A DIRECT CHARACTERIZATION PROCEDURE
AUTHORS.....: WU, E. M. / SCHUEBLEIN, J. K.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: ASTM STP 546, 1974.
PUBL. DATE...: 1974
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 331 TITLE.....: WAVE PROPAGATION IN ELASTIC MEDIA WITH A PERIODIC ARRAY OF
DISCRETE INCLUSIONS
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: J. OF THE ACOUSTICAL SOCIETY OF AMERICA 55, 700 (1974).

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MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 331 TITLE.....: WAVE PROPAGATION IN ELASTIC MEDIA WITH A PERIODIC ARRAY OF (CONTD.)
PUBL. DATE...: 1974
TYPE.....: JOURNAL

CATEGORY.....: MECHANICS
- 332 TITLE.....: STRESS RUPTURE OF GLASS/EPOXY COMPOSITES - ENVIRONMENT AND
STRESS EFFECTS.

AUTHORS.....: WU, E. M. / RUHMANN, D. C.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: ASTM STP 580, P. 263, 1974.
PUBL. DATE...: 1974
TYPE.....: REPORT

CATEGORY.....: COMPOSITE PROPERTIES
- 333 TITLE.....: A PHYSICAL MECHANISM FOR THE EARLY ACOUSTIC EMISSION IN AN
ORGANIC FIBER/EPOXY PRESSURE VESSEL

AUTHORS.....: HAMSTAD, M. A./CHIAO, T. T.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: SAMPE QUARTERLY, VOL.5, NO.2, JAN./ 1974.
PUBL. DATE...: JAN 1974
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES

KEYWORDS.....: FIBER COMPOSITES/NOISE DURING RUPTURE/FAILURE DETECTION
- 334 TITLE.....: ACOUSTIC EMISSION FROM STRESS-RUPTURE AND FATIGUE OF AN
ORGANIC FIBER COMPOSITE

AUTHORS.....: HAMSTAD, M. A./CHIAO, T. T.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 334 TITLE.....: ACOUSTIC EMISSION FROM STRESS-RUPTURE AND FATIGUE OF AN (CONTD.)
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-74745, JAN. 1974
SUBMITTED TO COMPOSITES
PUBL. DATE...: JAN 1974
TYPE.....: REPORT
- CATEGORY.....: FIBER COMPOSITES
- KEYWORDS.....: COMPOSITE MATERIALS/ACOUSTICS/EMISSION/FIBER COMPOSITES/
FATIGUE TEST/CREEP RUPTURE TESTS
- 335 TITLE.....: A ROOM TEMPERATURE-CURABLE EPOXY FOR ADVANCED FIBER
COMPOSITES
- AUTHORS.....: CHIAO, T. T./MOORE, R. L.
- ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
- SOURCE.....: PROC. 29TH ANNUAL CONFERENCE, SPI REINFORCED PLASTICS
COMPOSITES INST., SECT. 16-8, FEB., 1974
PUBL. DATE...: FEB 1974
TYPE.....: PROCEEDINGS
- CATEGORY.....: FIBER COMPOSITES
- KEYWORDS.....: FIBER COMPOSITES/EASY HANDLING EPOXY
- 336 TITLE.....: ORGANIC FIBER/EPOXY PRESSURE VESSELS
- AUTHORS.....: CHIAO, T. T./HAMSTAD, M. A./MARCON, M. A.
- ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
- SOURCE.....: SAMPE QUARTERLY, VOL. 5, NO. 3, APRIL, 1974
PUBL. DATE...: APR 1974
TYPE.....: JOURNAL
- CATEGORY.....: FIBER COMPOSITES
- KEYWORDS.....: FIBER COMPOSITES/LOW TEMPERATURES/BURST PRESSURE

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 337 TITLE.....: TENSILE PROPERTIES OF AN ULTRA-HIGH-STRENGTH GRAPHITE FIBER
AN EPOXY MATRIX
AUTHORS.....: CHIAO, T. T./ HAMSTAD, M. A./JESSOP, E. S.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75209, DEC.,1973
PRESENTED AT THE ASTM D-30 MEETING, LAS VEGAS, NEV. APRIL,1
PUBL. DATE...: APR 1974
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: COMPOSITE MATERIALS/CARBON FIBERS/EPOXY RESINS/FIBERS/
PERFORMANCE/ACOUSTICS/EMISSION
- 338 TITLE.....: POLYMER-LINED FILAMENT-WOUND PRESSURE VESSELS FOR NITROGEN
CONTAINMENT
AUTHORS.....: HAMSTAD, M. A./ CHIAO, T. T./JESSOP, E. S.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75361, MAY, 1974
PRESENTED AT THE AIME MEETING, MAY 1974, PITTS./ PA.
PUBL. DATE...: MAY 1974
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/LOW TEMPERATURE/FATIGUE RESISTANCE
- 339 TITLE.....: FATIGUE PERFORMANCE OF METAL-LINED GRAPHITE/EPOXY VESSELS
AUTHORS.....: HAMSTAD, M. A./ CHIAO, T. T./PATTERSON, R.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75759, JUNE, 1974
PUBL. DATE...: JUN 1974
TYPE.....: REPORT

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MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 339 TITLE.....: FATIGUE PERFORMANCE OF METAL-LINED GRAPHITE/EPOXY VESSELS (CONTD.)
CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/HIGH STRENGTH FIBERS
- 340 TITLE.....: AN EPOXY SYSTEM FOR FILAMENT WINDING
AUTHORS.....: CHIAO, T. T./ JESSOP, E. S./NEWY, H. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75866, AUG. 1, 1974 TO BE PUBLISHED IN SAMPE QUARTERLY
PUBL. DATE...: AUG 01 1974
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/EPOXY
- 341 TITLE.....: POLYIMIDES FOR FIBER COMPOSITES
AUTHORS.....: LORENSEN, L. E.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75922, TO BE PUBLISHED IN SAMPE QUARTERLY
PUBL. DATE...: AUG 15 1974
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/POLYIMIDES/FIBERS
- 342 TITLE.....: STRESS-RUPTURE OF EPOXY-COATED BE-WIRE
AUTHORS.....: CHIAO, T. T./ HAMSTAD, M. A./JESSOP, E. S.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

342 TITLE.....: STRESS-RUPTURE OF EPOXY-COATED BE-WIRE (CONTD.)
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75712, MAY 1974,
J. OF COMPOSITE MATERIALS, VOL.8, P.405, OCTOBER, 1974.
PUBL. DATE...: OCT 1974
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES

KEYWORDS.....: FIBER COMPOSITES/STRESS RUPTURE

343 TITLE.....: THE APPLICATION OF THREE DIMENSIONAL FINITE ELEMENT
ANALYSIS TO THE MICRO-MECHANICS OF FIBROUS COMPOSITE
MATERIALS

AUTHORS.....: LARDER, R. A.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: PUBLISHED IN PROCEEDINGS OF THE CUBE SYMPOSIUM, LAWRENCE
LIVERMORE LABORATORY OCTOBER 1974, P. 109

PUBL. DATE...: OCT 1974
TYPE.....: PROCEEDINGS

CATEGORY.....: FIBER COMPOSITES

344 TITLE.....: TENSILE PROPERTIES OF AN ULTRAHIGH-STRENGTH GRAPHITE FIBER
AN EPOXY MATRIX

AUTHORS.....: CHIAO, T. T./ HAMSTAD, M. A./JESSOP, E. S.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75209 REV. 1
PUBL. DATE...: OCT 01 1974
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES

345 TITLE.....: A MODERATE-TEMPERATURE-CURABLE EPOXY FOR ADVANCED COMPOSITE

AUTHORS.....: CHIAO, T. T./ JESSOP, E. S./NEWHEY, H. A.

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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VI FIBER COMPOSITE PROPERTIES

- 345 TITLE.....: A MODERATE-TEMPERATURE-CURABLE EPOXY FOR ADVANCED COMPOSITE (CONTD.)
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76126, PUBLISHED
SAMPE QUARTERLY 6 (3), APRIL 1975
PUBL. DATE...: OCT 23 1974
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/PROPERTIES OF EPOXY
- 346 TITLE.....: ACOUSTIC EMISSION USES IN RESEARCH AND DEVELOPMENT OF
COMPOSITE MATERIALS

AUTHORS.....: HAMSTAD, M. A.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76257, PUBLISHED
AMER.SOC.OF NON-DESTRUCTIVE TESTING ACOUSTIC EMISSION
HANDBOOK
PUBL. DATE...: NOV 21 1974
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
- 347 TITLE.....: ENGINEERING DESIGN DATA FOR COMPOSITE MATERIALS

AUTHORS.....: CLEMENTS, L. L.

ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550

SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT UCRL-77568. 1975
FLYWHEEL TECHNOLOGY SYMPOSIUM, BERKELEY, CA 10-12 NOV. 1975
PUBL. DATE...: 1975
TYPE.....: REPORT

CATEGORY.....: COMPOSITE PROPERTIES

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 348 TITLE.....: TESTING OF FIBER COMPOSITE MATERIALS
AUTHORS.....: CHIAO, T. T./HAMSTAD, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT UCRL-76365, KEY SPEECH
FOR 1975 INTL.CONF.ON COMPOSITE MATERIALS IN GENEVA,SWITZ./
AND BOSTON MASS.
PUBL. DATE...: JAN 09 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
- 349 TITLE.....: STOCHASTIC FINITE ELEMENT SIMULATION OF THE NONLINEAR
STRUCTURAL RESPONSE OF FIBROUS COMPOSITE MATERIALS.
AUTHORS.....: LARDER, R. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT UCRL-51717
PUBL. DATE...: JAN 15 1975
TYPE.....: THESIS

CATEGORY.....: FIBER COMPOSITES
- 350 TITLE.....: EVALUATION OF INTERLAMINAR SHEAR TEST FOR FIBER COMPOSITES
AUTHORS.....: CHIAO, T. T./MOORE, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-51766
PUBL. DATE...: MAR 05 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 351 TITLE.....: HIGH PERFORMANCE VESSELS FROM AN AROMATIC POLYAMIDE FIBER/
EPOXY COMPOSITE
AUTHORS.....: CHIAO, T. T./HAMSTAD, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-74780
PUBL. DATE...: APR 07 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
- 352 TITLE.....: CHEMICAL CHARACTERIZATION OF A HIGH-PERFORMANCE ORGANIC
FIBER
AUTHORS.....: PENN, LYNN/ NEWHEY, H. A./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT UCRL-76694
PUBL. DATE...: APR 09 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
- 353 TITLE.....: KEVLAR/EPOXY AND KEVLAR/GRAPHITE/EPOXY COMPOSITES FOR THE C-
4 (TRIDENT) CHAMBER PROGRAM
AUTHORS.....: CLEMENTS, L. L./ MOORE, R. L./ MONES, E. T./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCID-16747
PUBL. DATE...: APR 24 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES

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VI FIBER COMPOSITE PROPERTIES

- 354 TITLE.....: FATIGUE LIFE OF ORGANIC FIBER/EPOXY PRESSURE VESSELS
AUTHORS.....: HAMSTAD, M. A./ CHIAO, T. T./PATTERSON, R. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76174 PUBLISHED
PROCEEDINGS 7TH NATIONAL SAMPE CONFERENCE OCT., 14-16, ALBUQ.
NM
PUBL. DATE...: MAY 01 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
- 355 TITLE.....: SCREENING OF EPOXY SYSTEMS FOR HIGH-PERFORMANCE FILAMENT
WINDING APPLICATIONS
AUTHORS.....: CHIAO, T. T./ JESSOP, E. S./PENN, L. S.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: 7TH NATIONAL SAMPE CONFERENCE OCTOBER 14-16, 1975,
ALBUQUERQUE NEW MEXICO
PUBL. DATE...: MAY 19 1975
TYPE.....: PROCEEDING

CATEGORY.....: FIBER COMPOSITES
- 356 TITLE.....: A LONG POT LIFE EPOXY SYSTEM FOR FILAMENT WINDING
AUTHORS.....: PENN, L. S./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76918
PUBL. DATE...: JUN 01 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

357 TITLE.....: PERFORMANCE OF FILAMENT-WOUND VESSELS FROM AN ORGANIC FIBER
IN SEVERAL EPOXY MATRICES
AUTHORS.....: CHIAO, T. T./ JESSOP, E. S./HAMSTAD, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76913
PUBL. DATE...: JUN 11 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES

358 TITLE.....: ELONGATED-RING SPECIMEN FOR TENSILE PROPERTIES OF FILAMENT-
WOUND COMPOSITES
AUTHORS.....: CLEMENTS, L. L./ MOORE, R. L./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL 76917
PUBL. DATE...: JUN 13 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES

359 TITLE.....: STRENGTH DISTRIBUTION OF SINGLE FILAMENTS
AUTHORS.....: LARDER, R. A./BEADLE, C. W.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: JOURNAL OF COMPOSITE MATERIALS 9, 241
PUBL. DATE...: JUL 1975
TYPE.....: JOURNAL

CATEGORY.....: FIBER COMPOSITES

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VI FIBER COMPOSITE PROPERTIES

- 360 TITLE.....: HOLOGRAPHIC EXAMINATION OF A COMPOSITE PRESSURE VESSEL
AUTHORS.....: MEYER, M.D./KATAYANAGI, T. E.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL 77300
PUBL. DATE...: SEP 10 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
- 361 TITLE.....: STRENGTH RETENTION AND LIFE OF FIBER COMPOSITE MATERIALS
AUTHORS.....: CHIAO, T. T./ SHERRY, R. J.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-77225
PUBL. DATE...: SEP 19 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
- 362 TITLE.....: FIBER COMPOSITES FOR ENERGY STORAGE FLYWHEELS.
AUTHORS.....: PENN, L. S./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76891 ALSO: PROC.
ANNU. CONF. REINF. PLAST. COMPOS. INST. SOC. PLAST. IND.
31, 12-F.
PUBL. DATE...: OCT 07 1975
TYPE.....: REPORT

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/FLYWHEELS/FLYWHEEL MATERIALS

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 363 TITLE.....: CHARACTERIZATION PROCEDURE FOR THERMOSETTING RESINS
AUTHORS.....: PENN, L. S. / NEWAY, H.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: LAWRENCE LIVERMORE LABORATORY REPORT UCID-16934, 10 OCTOBER 1975.
PUBL. DATE...: OCT 10 1975
TYPE.....: REPORT

CATEGORY.....: MATERIAL PROPERTIES
- 364 TITLE.....: FIBER COMPOSITE PROGRAM FOR FLYWHEEL APPLICATIONS. SECOND QUARTERLY PROGRESS REPORT.
AUTHORS.....: STONE, R. G. / CHIAO, T. T. / RINDE, J. A. / PENN, L. S. / CLEMENTS, L. L. / CHIAO, C. C.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCRL-50033-75
CONTRACT #...: W-7405-ENG-48
PUBL. DATE...: NOV 1975
TYPE.....: REPORT
PUBLISHER....: LLL

KEYWORDS.....: COMPOSITE MATERIALS/ ENERGY STORAGE/ FIBERS/ FLYWHEELS/ GLASS/ MATERIALS TESTING/ MECHANICAL PROPERTIES/ MEETINGS/ RESEARCH PROGRAMS/ STRESSES
- 365 TITLE.....: FIBER COMPOSITES HIGHLIGHTS
AUTHORS.....: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCIR-942-75-2
PUBL. DATE...: NOV 14 1975

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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VI FIBER COMPOSITE PROPERTIES

- 366 TITLE.....: LONG-TERM PERFORMANCE OF FIBER COMPOSITES
AUTHORS.....: CHIAO, C. C.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCRL-77547. ALSO: CONF-751133-1
CONTRACT #...: W-7405-ENG-48
PUBL. DATE...: DEC 01 1975
TYPE.....: REPORT
PUBLISHER....: LLL
CONFERENCE...: FLYWHEEL TECHNOLOGY SYMPOSIUM
LOCATION.....: BERKELEY, CA.
DATE.....: 10 NOV., 1975
KEYWORDS.....: COMPOSITE MATERIALS/ EPOXIDES/ FILAMENTS/ FLYWHEELS/ GLASS/
MATERIALS/ MECHANICAL PROPERTIES/ POLYMERS/ RUPTURES/
STRESSES
- 367 TITLE.....: FIBER COMPOSITES HIGHLIGHTS
AUTHORS.....: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCIR-942-75-3
PUBL. DATE...: DEC 15 1975
- 368 TITLE.....: A THERMODYNAMIC CRITERION FOR THE GLASS-TRANSITION
TEMPERATURE.
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
PUBL. DATE...: 1976
CATEGORY.....: MECHANICS

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
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VI FIBER COMPOSITE PROPERTIES

- 369 TITLE.....: THE EFFECTIVE MODULI OF COMPOSITES CONTAINING RANDOMLY
ORIENTED FIBERS.
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
PUBL. DATE...: 1976
CATEGORY.....: MECHANICS
- 370 TITLE.....: WAVE PROPAGATION IN LAYERED ELASTIC MEDIA
AUTHORS.....: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: J. OF APPLIED MECHANICS
PUBL. DATE...: 1976
TYPE.....: JOURNAL
CATEGORY.....: MECHANICS
- 371 TITLE.....: COMPOSITE MATERIALS FOR ENERGY STORAGE FLYWHEELS
AUTHORS.....: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCRL-78225-ABSTRACT
PUBL. DATE...: 1976
- 372 TITLE.....: CHARACTERIZATION OF A POLYAMIDE MATRIX FOR FIBER COMPOSITES
AUTHORS.....: PENN, L. S. / MONES, E. T. / CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: SAMPE QUARTERLY, JAN. 1976.

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VI FIBER COMPOSITE PROPERTIES

372 TITLE.....: CHARACTERIZATION OF A POLYAMIDE MATRIX FOR FIBER COMPOSITES (CONTD.)
PUBL. DATE...: JAN 1976
TYPE.....: JOURNAL

CATEGORY.....: MATERIAL PROPERTIES

373 TITLE.....: FIBER COMPOSITES HIGHLIGHTS
AUTHORS.....: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCIR-942-75-4
PUBL. DATE...: JAN 15 1976

374 TITLE.....: FIBER COMPOSITES HIGHLIGHTS
AUTHORS.....: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCIR-942-76-1
PUBL. DATE...: FEB 15 1976

375 TITLE.....: ORGANIC MATERIALS DIVISION QUARTERLY REPORT
AUTHORS.....: LEPPER, J. K.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCRL-50019-75-4
PUBL. DATE...: FEB 20 1976

376 TITLE.....: AN ACCELERATED TEST FOR PREDICTING THE LIFETIME OF ORGANIC
FIBER COMPOSITES

ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

- 376 TITLE.....: AN ACCELERATED TEST FOR PREDICTING THE LIFETIME OF ORGANIC (CONTD.)
AUTHORS.....: CHIAO, C. C.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.....: 3RD BIENNIAL AIME SYMPOSIUM, LAS VEGAS, NEVADA, FEB. 22-26,
1976
PUBL. DATE...: FEB 22 1976
TYPE.....: PROCEEDINGS

CATEGORY.....: COMPOSITE PROPERTIES
- 377 TITLE.....: CHEMISTRY AND TECHNOLOGY OF HIGH STRENGTH POLYAMIDE FIBERS
AUTHORS.....: LARSEN, F. N.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
SOURCE.....: PRELIMINARY NOTES
PUBL. DATE...: MAR 10 1976
TYPE.....: PRELIMINARY NOTES
- 378 TITLE.....: FIBER COMPOSITES HIGHLIGHTS
AUTHORS.....: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCIR-942-76-2
PUBL. DATE...: MAR 15 1976
- 379 TITLE.....: FIBER COMPOSITES HIGHLIGHTS
AUTHORS.....: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCIR-942-76-5
PUBL. DATE...: MAY 1976

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VI FIBER COMPOSITE PROPERTIES

- 380 TITLE.....: FIBER COMPOSITES HIGHLIGHTS
AUTHORS.....: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCIR-942-76-4
PUBL. DATE...: MAY 15 1976
- 381 TITLE.....: ORGANIC MATERIALS DIVISION QUARTERLY REPORT
AUTHORS.....: LEPPER, J. K.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCRL-50019-76-1
PUBL. DATE...: MAY 28 1976
- 382 TITLE.....: FIBER COMPOSITES HIGHLIGHTS
AUTHORS.....: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.....: UCIR-942-76-6-7
PUBL. DATE...: JUN 1976

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