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RESEARCH IN RADIATION PHYSICS AND
AERODYNAMICS

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California University

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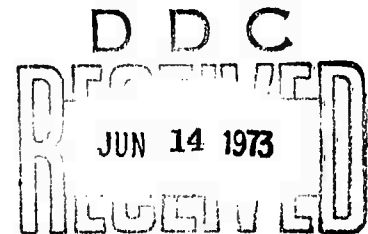
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HISTORY

Since the inception of this contract, various reports have been submitted regularly to the Advanced Research Projects Agency and the Army Research Office-Durham. These reports include:

Semi-Annual Status Reports

Quarterly Management Reports

Technical Reports (consisting of preprints of articles submitted for publication to various journals)

Special Reports (consisting of preparation for meetings, symposia, etc.)

Annual Report of Publications

The many areas of research and the many researchers involved have presented their findings in detail over the years since 1964. Perhaps best representative of highlighting this research would be a Complete List of Publications. This list is attached.

PERSONNEL

Faculty, professional research and graduate students have been listed in each semi-annual by name and title. Degrees and dates degrees were awarded have also been listed for graduate students.

COMPLETE

PUBLICATION LIST

1. Numerical Study of the Three Body Ion-Ion Recombination Rate, by Peter J. Feibelman, J. Chem. Phys. 42, 2462 (1965) (IPAPS #37)
2. Molecular Collision Cross Sections and the Effect of Water Vapour on Vibrational Relaxation in Carbon Dioxide, by Richard Marriott, Proc. Phys. Soc. (London) 88, 83 (1966) (IPAPS #38)
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4. Numerical Spectroscopy, by Manuel Rotenberg, J. Chem. Phys. 43, 1657 (1965) (IPAPS #41)
5. Kinetic Theory of Particles and Waves, by Normal Rostoker, (Abstract) presented at Symposium of the Many Body Problem, Novosibirsk (1965) (IPAPS #42)
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8. One-Center Expansions in H_2^+ ; Convergence in One-Center Expansions in H_2^+ , by George S. Handler and Hubert W. Joy, J. Chem. Phys. 42, 3047 (1965); 43, S252(1965) (IPAPS #47)
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10. On a Second-Order Thomas-Fermi Theory, by George S. Handler, J. Chem. Phys. 43, S253 (1965) (IPAPS #49)
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16. Many-Body Perturbation Theory Applied to Open-Shell Atoms, by Hugh P. Kelly, Phys. Rev. 144, 39 (1966) (IPAPS #57)
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20. The Theory of Correlated Crystals, by K. A. Brueckner and Jobst Froberg, Progress of Theoretical Physics (Japan), Supplement- Commemorative Issue 30th Anniversay of the Meson Theory, 1965, Extra Number, Tokyo Summer Lecture in Theoretical Physics, 383-399 (IPAPS #62)
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