

PUBLISHING NEWS

Resource Letters, Reprint Books

The AAPT Resource Letters and Reprint Books, supported respectively by the National Science Foundation and the American Association of Physics Teachers, are currently enjoying their third year of usefulness to the academic physics community. The letters are intended to guide college physicists to some of the literature and other teaching aids in specified fields of physics, providing easier access to bibliographical materials and thus encouraging teachers to introduce new topics into their courses. The reprint books contain some of the more fundamental reference material pointed to in the resource letters and are meant to save time and trouble in searching through journals to find the important background papers in a particular area.

The project was started by Professor Gerald Holton of Harvard University, under the auspices of the Commission on College Physics, with the first letter, on plasma physics, appearing in July 1961. Since the preparation of the first three letters, the program has been directed by the AAPT Committee on Resource Letters with Professor Arnold Arons of Amherst College as its chairman.

In addition to being printed in the *American Journal of Physics*, the resource letters are distributed in preprint form to the AAPT membership and to nonmembers who are listed in the "Directory of Academic Physics Departments". The AIP has collected the reprints and published them in book form for the AAPT. Thus far, six reprint books have been issued, all of which have gone to second printings. These include *Plasma Physics*, *Polarized Light*, *Special Relativity Theory*, *Mossbauer Effect*, *Kinematics and Dynamics of Satellite Orbits*, and *Quantum and Statistical Aspects of Light*.

The single-copy price for each of these books is \$2, with any combination of three costing \$5. The price for single orders to one address of

any combination of fifteen or more is \$1.50 per copy. The books can be ordered from the American Institute of Physics, Dept. B.N., 335 East 45th Street, New York, N.Y., 10017.

Two more books are now in preparation, one on friction and another on superconductivity; in the near future, it is planned to cover the areas of nuclear magnetic resonance, masers and lasers, ferromagnetism, molecular beams, and the discovery of the electron.

Magnetism Proceedings

The *Proceedings of the Ninth Symposium on Magnetism and Magnetic Materials* has been published as Part 2 of the March 1964 issue of the *Journal of Applied Physics*. The meeting was sponsored by the American Institute of Physics and the Institute of Electrical and Electronics Engineers and took place in Atlantic City, N.J., in November 1963.

Included in the volume are papers on applications and instrumentation, spin waves, thin films, nuclear and antiferromagnetic resonance, soft magnetic materials, ferromagnetic resonance and relaxation, magnetization processes, magnetic transitions and ordering, hard magnetic materials, exchange interactions in compounds, ferrites and garnets, rare-earth metals and alloys, and band structure of metals.

Copies of the *Proceedings* can be obtained from the Back Numbers Section, American Institute of Physics, 335 East 45th Street, New York, N.Y. 10017, for \$5 each.

New AVS Journal

The American Vacuum Society has announced plans to publish a new bimonthly journal beginning in the middle of the current year. It will be called the *Journal of the American Vacuum Society*, and the mechanics of publication will be handled by the American Institute of Physics.

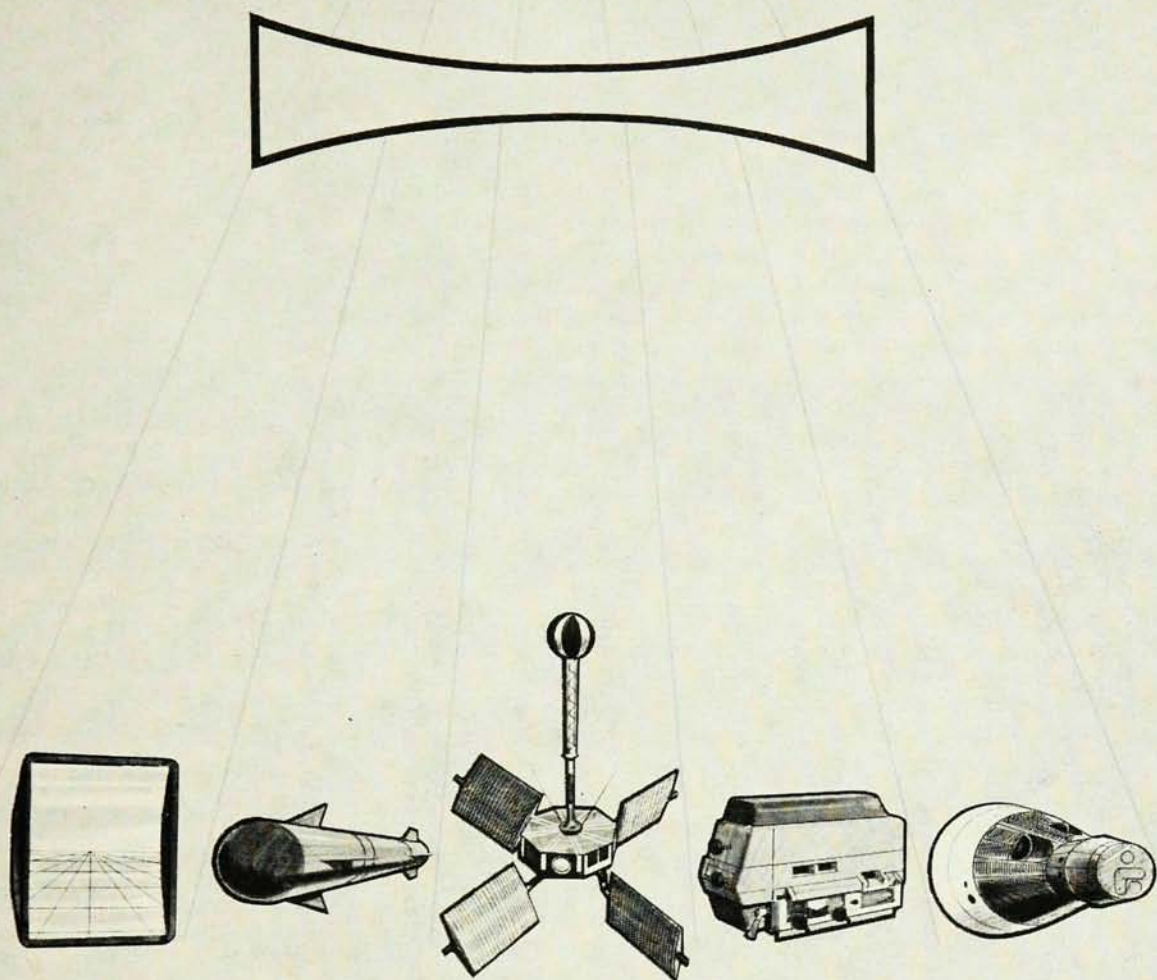
The *Journal* will be devoted to vacuum science and its applications to other sciences, to engineering, and to industry. Papers describing new results in vacuum science and technology that are of an experimental or theoretical nature will be appropriate, including original papers on vacuum equipment, techniques, and instruments. It is also planned to publish critical review and survey articles on specific topics related to vacuum science. Short communications and book reviews will also be accepted.

The Vacuum Society's Publications Committee will act as a temporary editorial board for the new *Journal* and is now actively soliciting papers for the first issues. All papers will be refereed and prepared in a manner similar to that of other journals handled by the American Institute of Physics. The *AIP Style Manual* will be used for guidance in the preparation of papers. An "Information for Contributors" sheet is also available from the AVS Publications Committee to assist in manuscript preparation. It would aid the Committee in planning for the months ahead if any plans for submitting an article to the *Journal* within the next six months were communicated to the Committee.

All manuscripts and correspondence with reference to the *Journal* should be sent to: AVS Publications Committee, c/o Luther E. Preuss, Physics Department, Edsel B. Ford Institute, Henry Ford Hospital, Detroit 2, Mich.

Dover Reprints

Biographical and classical works in the sciences which have recently been reprinted by Dover Publications include *Pierre Curie* by Marie Curie; *Isaac Newton: A Biography* by Louis Trenchard More; *Tycho Brahe: A Picture of Scientific Life and Work in the Sixteenth Century* by J. L. E. Dreyer; *Treatise on Light* by Christiaan Huygens, translated by Silvanus P. Thompson; *Electric Waves* by Heinrich Hertz, translated by D. E. Jones; *A History of the Mathematical Theories of Attraction and the Figure of the Earth: From the Time*



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of Newton to that of Laplace by I. Todhunter; *Theory of the Motion of the Heavenly Bodies Moving About the Sun in Conic Sections* by Karl Friedrich Gauss, translated by Charles H. Davis; and *Opticks* by Isaac Newton.

Reprint Classics

The Johnson Reprint Corporation of New York has announced a new series of paperback reprints in the sciences to be published during the first half of this year. Under the general editorship of Harry Woolf, professor of the history of science at Johns Hopkins University, *The Sources of Science* intends to make available historical scientific works in scholarly, annotated editions.

Among the first group of titles that are planned are Robert Boyle, *Experiments and Considerations Touching Colour*, annotated by Marie Boas Hall; Richard Waller, *Essayes of Natural Experiments*, annotated by A. Rupert Hall; and *The Mathematical Works of Isaac Newton*, annotated by Derek T. Whiteside.

Inquiries can be directed to the Johnson Reprint Corporation, 111 Fifth Avenue, New York, N. Y. 10003.

US Standards History

An account of the development of American standards for weights and measures from the time of the American Revolution through 1962 has been prepared by Lewis V. Judson of the National Bureau of Standards. The thirty-page publication is illustrated and has six appendixes which describe such historically important events as the 1960 adoption of the wavelength definition of the meter.

Weights and Measures Standards of the United States, A Brief History can be obtained from the Superintendent of Documents, US Government Printing Office, Washington, D. C. 20402, for 35¢ a copy.

Isotopes

A literature survey and a bibliography of radioisotope technology are now available from the Office of Technical Services, US Department

of Commerce, Washington, D.C.

Literature Survey On World Isotope And Radiation Technology (IITRI-1194-13) (\$2.75) prepared by the Illinois Institute of Technology, describes the uses and technology of radioisotopes throughout the world, with particular emphasis on the US and the Soviet Union. Media examined were classified by country, year of publication, and subject matter. A bibliography with fifty references is attached.

Radioisotopes In World Industry, Abstracts of Selected Foreign Literature (TID-6613 Suppl. 4) (\$2.75) is another in the series of Atomic Energy Commission publications of abstracts of foreign literature on radioisotope technology. The 626 abstracts were prepared by the Science and Technology Division, Library of Congress, for the AEC. Previous publications in the series, TID-6613, TID-6613 (Suppl. 1), TID-6613 (Suppl. 2), and TID-6613 (Suppl. 3), each priced at \$2.50, are all available from OTS.

The Scientific Equipment Company has issued its *1963-64 Isotope Index*, listing the source of every known commercially available isotope as of July 1963. The more than 10 800 entries include both stable and radioactive isotopes as well as some 2100 labeled compounds of ^{14}C , ^{125}I , ^{131}I , ^{32}P , ^{35}S , ^3H , ^2H , ^{13}C , ^{15}N , and ^{18}O . Information includes chemical name or formula, specific activity, supplier, catalog number, and latest prices. Copies can be obtained from the Scientific Equipment Company, Publications Department, PO Box 19086, Indianapolis, Ind., for \$7 each (hardbound copies are priced at \$8).

Pu and U Measurement

The Atomic Energy Commission has completed a five-year study of measuring techniques with publication of a comprehensive book on accurate and reliable methods of determining the chemical concentration and isotopic composition of plutonium and uranium in various forms.

The book, entitled *Selected Measurement Methods for Plutonium and Uranium in the Nuclear Fuel Cycle*,

was prepared under the sponsorship of the AEC's Division of Nuclear Materials Management and published by the agency's Division of Technical Information. It was compiled and edited by Ralph J. Jones, chief of the Survey and Appraisal Branch of the Division of Nuclear Materials Management. The book is for sale by the Superintendent of Documents, US Government Printing Office, Washington, D.C., for \$3.50 a copy.

Tables

The second revised edition of Ryshik and Gradstein's *Tables of Series, Products, and Integrals* has been translated from the original Russian into a bilingual English-German edition by VEB Deutscher Verlag Der Wissenschaften of Berlin. Special features of the volume include an index of special functions and notations, a table of disparities in notation and symbols, a list of abbreviations, and a bibliography of references which formed the basis for reconstructing most of the tables. Copies of the publication can be obtained from the Plenum Press, 227 W. 17 St., New York, N.Y. for \$15.

Soviet Astronomy

Papers on Soviet contributions to astronomy, including several on the performance of the new 102-inch reflector telescope at the Crimean Astrophysical Observatory, are contained in a recent volume of translated articles from Russian publications. The telescope, which is the largest in Europe, has a 4-ton mirror optical system and is capable of changes in mirror focal length from 10 to 100 meters.

The volume, *New Methods In Astronomy* (TT-64-21262), can be obtained for \$3 from the Office of Technical Services, US Department of Commerce, Washington, D.C.

Lab Notes

Laboratory And Workshop Notes 1959-1961 is the sixth selection of notes reprinted from the *Journal of Scientific Instruments* by the British Institute of Physics and Physical So-