

PUBLISHING NEWS

Collections

Two additional volumes in the American Institute of Mining, Metallurgical, and Petroleum Engineers' Metallurgical Society's Conference series are now available from Interscience Publishers, Inc., 250 Fifth Avenue, New York 1, N. Y.

Columbium Metallurgy, 764 pages, \$26, contains the proceedings of a conference sponsored by the Hudson Mohawk Section of the AIME at Bolton Landing, N. Y., June 9-10, 1960. Its 32 papers are categorized under sections on fabrication, general metallurgy, mechanical properties, and oxidation and reduction.

The proceedings of a conference held in Boston, August 29-31, 1960, under the joint sponsorship of the Semiconductors Committee of the Society's Institute of Metals Division and the AIME's Boston Section have been issued as a 506-page illustrated volume entitled *Metallurgy of Elemental and Compound Semiconductors*. The 30 papers in the collection deal with germanium and silicon for Esaki-tunnel diodes, dendritic growth of germanium, 3-5 compound growth and solubility considerations, other semiconductor materials, and evaluation. It is priced at \$13.

A collection of 37 lectures, originally delivered by staff members of the University of California's Lawrence Radiation Laboratory at a symposium for outstanding high-school science teachers, has been published and made available as a bound volume. In addition to a "mathematics review", the book includes talks dealing with such diverse topics as elementary particles and antiparticles, counters used in high-energy physics, bubble chambers, computer programming, chromatography, photosynthesis, chemistry and physics of viruses, origin of the solar system, space satellites, and the effects of radiation on life in space. The 162-page volume, entitled *Lectures on Physics, Biophysics, and Chemistry for High School Teachers* (UCRL-8816), can be obtained from the Office of Technical Services, US Department of Commerce, Washington 25, D. C., for \$1.50.

The Chemical Rubber Company, for nearly fifty years the publishers of the *Handbook of Chemistry and Physics*, has announced the publication of a new *Handbook of Mathematical Tables*. The reference work includes a complete array of the standard mathematical tables, as well as new compilations of data (e.g., elliptic planetary orbits, spherical harmonics, binomial and Poisson distributions, etc.) selected to serve the particular needs of specialists in the physical, mathematical, and engineering sciences.

The size of the new volume (6½" by 9½") is somewhat larger than that of the *Handbook of Chemistry and Physics*, allowing clear presentation of tabular data.

It is priced at \$7.50. Orders or requests for descriptive literature should be addressed to the Chemical Rubber Co., Publications Division, Dept. M, 2310 Superior Ave., Cleveland 14, Ohio.

The third in a series of documents treating the design of experiments in cases where the number of factors is so large that their study on all levels becomes prohibitive has been issued by the National Bureau of Standards as document 58 of the NBS Mathematics Series. Entitled *Fractional Factorial Designs for Experiments with Factors at Two and Three Levels*, the 65-page publication is the sequel to AMS 48, which contains plans for m factors, each at two levels, and AMS 54, with plans for n factors, each at three levels. The new document gives 39 design combinations for the mixed series involving $(m+n)$ factors where $5 \leq m+n \leq 10$. The publication, priced at 40¢, can be ordered from the Superintendent of Documents, US Government Printing Office, Washington 25, D. C.

The eighth edition of the *Directory of the American Council of Independent Laboratories* contains an index of ACIL members, descriptions of the individual laboratories, their services, and an index of services. The directory, which covers independent testing, inspection, and research laboratories, is available, without charge, to industrial and government executives. Requests should be made to the Executive Secretary, American Council of Independent Laboratories, 4302 East-West Highway, Washington 14, D. C.

Periodicals

At the Berkeley Meeting of the International Astronomical Union last August, it was agreed that an *Astrophysical Computation Newsletter* be established as a medium for more rapid and flexible communication among users of electronic computers in astrophysical research. Although this plan was the outcome of the deliberations by a committee appointed by Prof. C. de Jager, president of the Union's Commission 36 (Theory of Stellar Atmospheres), the *Newsletter* will not be restricted to computations in that area; it will, however, specifically exclude lists of catalogs available on punched cards, which are to be handled separately.

Contributions of the following kinds are solicited: A basic listing to provide information for individual personal exchange of programs (name of institution, equipment available, areas of program development, name of man to contact for information); brief descriptions of programs (purpose of program, programming language, minimum equipment needed to run

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program, condensed flow diagrams, availability of equipment and personnel for special runs); and brief descriptions of tables that are available, but not published. Initially, at least, distribution of the *Newsletter* will be free. All correspondence concerning the *Newsletter* should be sent to Dr. M. H. Wrubel, Department of Astronomy, Indiana University, Bloomington, Ind.

An announcement appearing elsewhere in this issue calls attention to the availability of special discounts for subscriptions to AIP translation journals. Specifically, any individual whose employing organization subscribes to an AIP translation journal may also subscribe to that journal at half the regular rate. Also, all subscribers to translation journals may order additional copies (beyond the first) of each journal at half the regular rate.

These half-rate arrangements apply to translations of the 1962 Russian originals to be issued during the publication year July 1962-June 1963. Orders and inquiries should be addressed to the American Institute of Physics, 335 East 45th Street, New York 17, N. Y.

A fifty-percent increase in editorial content is planned by the *Journal of the Aerospace Sciences* with the help of a grant of \$85 600 which has been provided by the National Science Foundation. The *Journal*, a publication of the Institute of Aerospace Sciences, thus expects to be able to "overcome a sizable backlog of manuscripts contributed by the world's most distinguished aerospace scientists, and to quicken the dissemination of new concepts and findings along the frontiers of aerospace knowledge".

Initial support has been provided by the National Science Foundation to the Operations Research Society of America for a new quarterly journal which will contain abstracts of operations research papers published throughout the world. The editor is Dr. Herbert P. Galliher, Massachusetts Institute of Technology, Cambridge 39, Mass.

Volume 24 of the annual *Digest of Literature on Dielectrics*, published by the NAS-NRC Conference on Electrical Insulation, contains summaries and critical evaluations of technical advances reported in the literature of dielectrics for 1960. The volume covers the following subjects: instrumentation and measurements; tables of dielectric constants, dipole moments, and dielectric relaxation times; molecular and ionic interactions in dielectrics; electrical conduction in dielectrics; the breakdown of dielectrics; ferroelectric and piezoelectric materials; high-polymeric materials; insulating films and fibrous materials; solid organic insulation; and applications. The 302-page *Digest* is priced at \$8 and can be ordered from the National Academy of Sciences—National Research Council, Washington 25, D. C.