

PUBLISHING NEWS

Monographs

A summary of the elastic, viscoelastic, and acoustic isolation properties of materials is contained in a 51-page monograph entitled *Acoustic Propagation and Isolation*, by F. E. Bellas, which has recently been published as Engineering Research Bulletin B-81 by the Pennsylvania State University College of Engineering and Architecture, University Park, Pa. It is priced at \$2. The monograph starts with a brief review of basic concepts in the theory of elasticity, deals with propagation in various kinds of media, and concludes with a discussion of acoustic isolation by means of elastic, viscoelastic, and porous viscoelastic media.

Climatic Charts and Data of the Radio Refractive Index for the United States and the World (National Bureau of Standards Monograph 22) has been prepared by B. R. Bean, J. D. Horn, and A. M. Ozanich, Jr., as a compilation and analysis of data on the radio refractive index of air obtained from observations made over an eight-year period at 45 US weather stations, supplemented by information from the United Nations' *Climatic Data for the World* and other records. Since the index is a function of atmospheric pressure, temperature, and humidity, it varies systematically with climate and also with elevation. A simplification has been introduced into the tables by reducing all data to sea-level values. The monograph is 178 pages long, costs \$2, and can be ordered from the Superintendent of Documents, US Government Printing Office, Washington 25, D. C.

A limited number of copies of the *Proceedings of the May 20, 1960 Conference on X-Ray Astronomy*, held at the Smithsonian Astrophysical Observatory, are now available, according to the editor, Arthur I. Berman. They may be obtained free of charge by technical libraries, students, and research workers who address their requests to the Smithsonian Astrophysical Observatory, 60 Garden St., Cambridge 38, Mass., Att.: Mrs. H. Beattie.

Periodicals

Volume 1, Number 1 of a new Pergamon Press journal entitled *Infrared Physics* was issued in March of this year. The editors are W. K. Weihe of the US Army Engineer Research and Development Laboratories at Fort Belvoir, Va., S. Passman of the RAND Corporation in Santa Monica, Calif., N. Migeotte of the Institute of Astrophysics at the University of Liège in Belgium, and T. S. Moss of Britain's Royal Aircraft Establishment. The magazine also has a 31-member editorial advisory board which includes 16 representa-

tives from the United States. Concerned with infrared theory, applications, and instrumentation, the journal will publish research papers and notes, invited critical surveys, and book reviews. Requests for further information should be sent to Pergamon Press, Inc., 122 East 55th Street, New York 22, N. Y.

The **Metallurgical Society** of the American Institute of Mining, Metallurgical, and Petroleum Engineers is offering the first six volumes of *Nuclear Metallurgy* at a reduced price of \$12 to members and \$18 to non-members. The six volumes contain 600 pages in all and are composed of papers presented over a period of several years before Institute of Metals Division sessions, including the following symposia: Behavior of Materials in Reactor Environment (February 1956), Effects of Radiation on Metals (October 1956), Uranium and Uranium Dioxide (November 1957), Fabrication of Fuel Elements (October 1958), and Effects of Irradiation on Fuels and Fuel Elements (November 1959). Sets can be purchased from the AIME Book Order Department, 29 West 39th St., New York 18, New York.

The **Library of Congress** has announced that it will donate its overstock of back numbers of its publications, *East European Accessions Index* and *Monthly Index of Russian Accessions*, to libraries of educational institutions and public bodies in the United States. Each index gives in English a monthly account of new material on a variety of subjects received by the Library of Congress and other American research libraries from the USSR and East European countries. The number of available copies of individual issues varies, but the Library will try to fill requests for nearly complete sets of back numbers as long as the supply lasts. All requests, whether for complete files or individual issues, will be filled in order of receipt. Requests should be addressed to the Chief, Exchange and Gift Division, Library of Congress, Washington 25, D. C. Subscriptions for future issues may be placed with the Superintendent of Documents, US Government Printing Office, Washington 25, D. C.

Data Collection and Evaluation Centers

The **Sigma Center** at Brookhaven National Laboratory, which was originally organized by the late Donald J. Hughes to compile and evaluate information on neutron cross sections, has been expanded into two groups, carrying out two distinct functions.

The Neutron Cross Section Compilation Group collects the available data on neutron cross sections and associated nuclear properties of all materials, maintains a file of this information arranged for ready reference