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Collections

Various aspects of materials science are covered in four separate volumes published in October by the American Society for Testing and Materials.

Volume 60 of the *ASTM Proceedings* (1242 pp.; \$12) is the official record of the society's activities for 1960. In addition to a summary of material presented at the annual meeting and a directors' report, it contains 77 reports of ASTM technical committees and 44 technical papers (supplemented by discussions not previously published) pertaining to research and standards for materials. Part of the directors' report concerns the activities of the new Division of Materials Sciences, which was organized to coordinate studies and discussions on materials research. The volume also includes a subject and author index to all 1960 ASTM publications.

The *Report on Physical Properties of Metals and Alloys from Cryogenic to Elevated Temperatures* (STP-296) was prepared by Batelle Memorial Institute under the auspices of the Data and Publications Panel of the ASTM-ASME Joint Committee on Effect of Temperature on the Properties of Metals. It lists data on the thermal conductivity, linear thermal expansion, specific heat, electrical resistivity, density, emissivity, diffusivity, and magnetic permeability of aluminum, cobalt, iron, magnesium, molybdenum, nickel, and their alloy systems. Emphasis is given to data over a range from -457°F to 4500°F . The 206-page volume is paperback and sells for \$4.75.

Papers from two symposia, "Recent Progress in Materials Science" and "Nature and Origin of Strength of Materials", both held during the 63rd Annual Meeting of ASTM (Atlantic City, June 26 to July 1, 1960), are contained in *Properties of Crystalline Solids* (STP-283). The papers represent a blending of several disciplines especially those involving crystal physics, mechanics, chemistry, and metallurgy. Sponsored by the society's Division of Materials Sciences, the 150-page publication (priced at \$4) is the first of a series of state-of-the-art publications in materials science.

The present state of knowledge concerning the properties of high-strength materials at cryogenic temperatures is considered in a collection of papers published by ASTM under the title, *Symposium on Low-Temperature Properties of High-Strength Aircraft and Missile Materials* (STP-287). Emphasis is given to the mechanical properties of alloys of aluminum, magnesium, titanium, and stainless steel at temperatures down to -423°F . Fourteen papers make up the 232-page volume, which sells for \$7.

All four books may be ordered from ASTM headquarters, 1916 Race Street, Philadelphia 3, Pa.