

A Tabulation of the Thermodynamic Properties of Normal Hydrogen From Low Temperature to 300°K and From 1 to 100 Atmospheres (PB 161 621; \$1.75) gives pressure, volume, temperature, internal energy, enthalpy, and entropy of normal hydrogen tabulated along isobars in 1°K steps. The report also describes a method for estimating the effect of ortho-para compositions upon the tabulated properties.

Photoionization of Atoms and Molecules (PB 161 632; \$1.25) presents quantitative data from experiments on all the alkalis, magnesium, calcium, thallium, the common gases, and all rare gases except xenon.

A Survey of the Literature On Heat Transfer From Solid Surfaces to Cryogenic Fluids (PB 161 623; \$1.25) lists references dealing with the characteristics of heat transfer from solid surfaces to cryogenic fluids, and related phenomena.

Ionospheric Observations of Artificially Produced Electron Clouds: Firefly 1960 (PB 161 636; \$2.50) is an analysis of ionospheric soundings in which sodium and other substances were injected into the ionosphere during Project Firefly 1960.

Plasma Bibliography

More than one thousand references to material published during the past nine years on the general and specific aspects of plasma physics and magnetohydrodynamics are contained in a bibliography compiled by M. F. Aukland of the Armed Forces Technical Information Agency. The volume, *Plasma Physics & Magnetohydrodynamics—A Report Bibliography* (AD 271 170), covers the specific subject areas of electron-ion collisions, electromagnetic waves, gas ionization, magnetic pinch effects, microwaves, plasma jets, plasma sheaths, propellants and propulsion, oscillations, nuclear applications, re-entry aerodynamics, shock waves and shock tubes, and solar and extraterrestrial effects. The 267-page bibliography also includes general references on theory, analysis, and instrumentation. Priced at \$2.75, the bibliography can be ordered from the Office of Technical Services, US Department of Commerce, Washington 25, D. C.

ASTM Indexes

The American Society for Testing and Materials has issued a new *Five-Year Index to ASTM Technical Papers and Reports* (1956-60), supplementing two previous listings, the fifty-year index covering ASTM publications from 1898 to 1950 and the five-year index for 1951-55. The new volume (147 pp., \$3.50) can be ordered from ASTM headquarters, 1916 Race Street, Philadelphia 3, Pa.

ASTM has also announced the publication of the *1961 Index to ASTM Standards*, which contains complete listings of the Society's 1632 standards and 1218 tentatives in effect as of December 1961. The 226-page book can be obtained without charge by writing to ASTM headquarters at the address listed above.

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