visor with offices in Washington, D. C. The publication will abstract the world's literature in meteorology, climatology, hydrology, oceanography, upper atmospheric and ionospheric physics, radio astronomy, geomagnetism, planetary atmospheres, and solar physics.

Functions

Graphic representations of a number of functions which frequently occur in scientific and technical calculations are contained in a 118-page paperbound volume entitled *Graphiques des Fonctions usuelles pour Calculs numeriques rapides*. Compiled by Camille Meynart and published by Editions Eyrolles of Paris, it costs 19.20 NF. Beginning with various powers and roots and proceeding through trigonometric and exponential functions, its contents include elliptic integrals, Bessel functions, Legendre polynomials, Fresnel integrals, Hermite and Tschebysheff polynomials, and a number of others. The text gives short descriptions and symbolical formulations of the various functions.

In general, a group of related functions is displayed on each of the 41 full-page graphs. The drawings are generally clear, although there are a few instances of blurred notations.

Nonmetallic Crystals

Forty-eight papers presented last summer at the 1961 International Symposium on the Chemical Physics of Nonmetallic Crystals have been included in a special supplement to the January issue of the *Journal of Applied Physics*. The collection will also be published commercially in book form.

Sponsored by the Divisions of Chemical Physics and Solid-State Physics of the American Physical Society, together with the Division of Physical Chemistry of the American Chemical Society, the symposium was held August 28–31 at Northwestern University. The purpose of the meeting was to survey the current knowledge of binding in nonmetallic crystals and of the equilibrium properties of point defects (both chemical and structural) in such crystals. The published papers are grouped under the following main subject categories: (1) quantum theory of nonmetallic crystals, (2) characterization of point defects in crystals, (3) equilibrium properties of dilute solid solutions, and (4) kinetic methods characterizing point defects.

The 250-page clothbound edition of *Chemical Physics of Nonmetallic Crystals* is scheduled to appear next month. It is priced at $10 and can be ordered directly from the publisher, W. A. Benjamin, Inc., 2465 Broadway, New York 25, N. Y.

Information Services

A directory describing 427 organizations that provide continuing information services in various fields of the physical and biological sciences and technology