

Again Available

Statistical Mechanics

SECOND EDITION (1936)

by R. H. FOWLER

OUT of print for a couple of years, Fowler's classic on the properties of matter in equilibrium has now been reprinted. The following review of the second edition gives you an indication of the book's importance:

"The book is so comprehensive and scholarly that every self-respecting physicist who concerns himself with matter in bulk will be practically forced to familiarize himself with its method and content."

—Review of *Scientific Instruments*

\$15.00, at your technical bookstore

CAMBRIDGE University Press

32 East 57th Street
New York 22, New York



The authors state in the last sentence of the book that its limited purpose is to extend the purely linear control system approach of their earlier volume by providing practical design methods for the solution of servomechanism problems. In this they have succeeded, for while the treatment is devoid of sophisticated mathematics, and studiously eschews the fundamental aspects of advanced topics such as nonlinear and time-dependent control, it gives a sound discussion of the underlying physical phenomena, and a wealth of practical results within the extended framework of the linear control theory.

Sponsored Research Policy of Colleges and Universities. A Report of the Committee on Institutional Research Policy. 95 pp. American Council on Education, Washington, D. C., 1954. \$1.50. *Reviewed by C. Süsskind, University of California.*

This thin little book is the result of an investigation that was supported by the Alfred M. Sloan Foundation through a grant to the American Council on Education. The report makes some interesting points, one of which is that "federal support of [sponsored] research . . . is not now essential to the survival of higher education in this country and should not be permitted to become so". The report goes on to cite chapter and verse in support of this contention, but this is almost the sole instance of an unequivocal stand on an important issue. The report is obviously the work of many hands, as evidenced by the style and the peculiar form: the conclusions and recommendations are presented in the first quarter of the text, and the bulk of the report is a sort of enlargement of this initial section, containing several instances of almost verbatim repetition. There is an extensive bibliography, with Lloyd V. Berkner's article on university research and government support (*Physics Today*, January 1954) among the most often quoted. But the report errs on the side of objectivity: there is too much of "on the one hand . . . on the other hand". The Committee cannot recommend more basic, more unrestricted, more institutional, more decentralized research projects without quickly mentioning the importance of applied, classified, specific-project, centralized research. As a result, an administrator will have a hard time obtaining useful guidance on policy determination from this report; objectivity here comes very close to hedging.

Einführung in die Theoretische Physik. Volume I, Mechanik and Volume II, Das Elektromagnetische Feld. By Werner Döring. 119 pp. and 120 pp. Walter de Gruyter & Co., Berlin, Germany, 1954 and 1955. Paper-bound DM 2.40 each. *Reviewed by William Fuller Brown, Jr., Sun Oil Company.*

These little volumes demonstrate that a book on theoretical physics need not be too big for a student to put in his pocket, too expensive for him to have in his own library, or too long for him ever to finish reading. I



send for the
most widely used
Electronic Supply Guide

FREE on request
ALLIED'S
324-PAGE
1956 CATALOG

Save time, effort and money—send your orders to ALLIED—the dependable, complete source for all your Electronic Supply needs. We make fast shipment from the world's largest stocks of:

- Special Purpose Electron Tubes & Transistors
- Lab Test and Measurement Instruments
- Audio Amplifiers and Accessories
- Electronic Parts and Components of All Types

Let our experts fill *all* your electronic supply needs. Send today for your **FREE** copy of the 1956 ALLIED Catalog—the complete, up-to-date Buying Guide to *all* Electronic Supplies.

ALLIED RADIO

Dept. 62-L-5, 100 N. Western Ave., Chicago 80, Ill.