BOOKS Continued from page 26

In a sober, journalistic fashion he sets out to report the facts in detail. That array of evidence, testimony, and documents in the end mounts up to an appalling indictment of complacency and ignorance.

Hugh Odishaw

MICROWAVE TRANSMISSION DESIGN DATA. By Theodore Moreno. 248 pp. McGraw-Hill Book Company, Inc., New York, 1948. \$4.00.

MICROWAVE TRANSMISSION CIRCUITS, Vol. 9, MIT Radiation Laboratory Series. Edited by George L. Ragan. 725 pp. McGraw-Hill Book Company, Inc., New York, 1948.

The short book by Moreno should be a help to anyone who wants to use transmission lines or wave guides. The novice will find fundamental quantities explained in simple terms, and concrete examples of use of the Smith chart and of impedance matching. The better informed will need the tables covering discontinuities, bends, dielectrics in wave guides, and loss in conductors and dielectrics. A brief chapter on resonators contains useful design data.

The Radiation Laboratory book covers similar material in more detail and seems chiefly valuable in presenting extensive measurements on such elements as discontinuities, transducers, branches, chokes, and switches. There is, however, a good stiff section on the theory and design of microwave filters.

One of three 'fundamental things' concerning waves cited in the first chapter, "the fact that in any electromagnetic wave the electric field and the magnetic field are always orthogonal" just is not so. J. R. Pierce Bell Telephone Laboratories

Books Received

POWER FROM THE WIND. By Palmer Cosslett Putnam. 224 pp. D. Van Nostrand Company, Inc., New York City, 1948. \$6.00.

Monographs on the Progress of Research in Holland. No. 20, Progress in the Theory of the Physical Properties of Glass. By J. M. Stevels. 104 pp. Elsevier Publishing Company, Inc., New York City, 1948. \$2.00.

REPORT ON THE PITTSBURGH INTERNATIONAL CONFERENCE ON SURFACE REACTIONS. 236 pp. Corrosion Publishing Company, Pittsburgh, Pa., 1948. \$10.00.

ONE STORY OF RADAR. By A. P. Rowe. 208 pp. Cambridge University Press, The Macmillan Company, New York City, 1948. \$2.50.

ANALYTICAL THEORY OF CONTINUED FRACTIONS. By H. S. Wall. 433 pp. D. Van Nostrand Company, Inc., New York City, 1948. \$6.50.

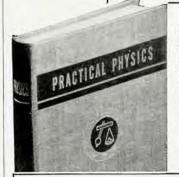
SCIENCE AND THE MODERN WORLD (Lowell Lectures, 1925), First Pelican Mentor Books Edition. By Alfred North Whitehead. 212 pp. The New American Library, New York City, 1948. \$0.35.

THE MANUFACTURE OF GLASS. By L. M. Angus-Butterworth. 274 pp. Pitman Publishing Corporation, New York City, 1948. \$6.00.

BATTLEFIELDS OF INDUSTRY—WESTINGHOUSE IN WORLD WAR II. By David O. Woodbury. 342 pp. John Wiley and Sons, Inc., New York City, 1948. \$3.50.

A Practical introduction to

CIENCE



For practical knowledge of the laws of mechanics, heat, sound, electricity, and light, on which many practices and equipments in engineering and technical work are based. check this concise, easyto-read book.

PRACTICAL PHYSICS

By Marsh W. White, Editor

Prepared under the direction of the Division of Arts and Sciences Extension, The Pennsylvania State College 365 pages, 6 x 9, 239 illustrations, \$4.00

"It is expected that industrial developments will involve unprecedented applications of physics in industry, and will utilize the services of men and women with a knowledge of this science to a degree never before visualized." This book gives you an introductory treatment of the subject—the laws of mechanics, heat, sound, electricity, and light ... the practical aspects of physics most needed in engineering and technical work.

Simplest algebra and trigonometrical functions of the right angle are the extent of the mathematics used in this book. The material is presented in a logically progressive manner, enabling you to study and review the mathematics concurrently with the physics. And to aid self-study there are worked-out!illustrative problems, practice questions with answers, and experiments you can perform with readily available equipment.

32 clearly developed chapters

32 clearly developed chapters
Fundamental Units; Accuracy and Significant Figures. Linear Measurements; Errors. Temperature Measurement; Thermal Expansion. Heat Quantities. Heat Transfer. Properties of Solids. Properties of Liquids. Gases and the Gas Laws. Meteorology. Types of Motion. Force and Motion. Friction; Work and Energy. Simple Machines. Power. Concurrent Forces; Vectors. Non-concurrent Forces; Torque. Rotary Motion; Torque; Moment of Inertia. Vibratory Motion; Resonance. Sources and Effects of Electrical Currents. Ohm's Law; Resistance; Series and Parallel Circuits. Electrical Measuring Instruments. Heating Effect of an Electrical Current. Chemical Effects of an Electrical Current. Chemical Effects of an Electrical Current. Chemical Effects of an Electrical Current. Sound Waves. Acoustics. Light; Illumination and Reflection. Refraction of Light; Lenses; Optical Instruments. nation and Reflection. Refraction of Light; Lenses; Optical Instruments.

10 DAYS FREE EXAMINATION

Send no money. Just fill in and mail this handy coupon, and a copy of PRACTICAL PHYSICS will be rushed to you promptly. Read it . . . check the 32 clearly developed chapters for practical knowledge you can use . . . see for yourself if this book isn't worth the low price of \$4.00. At the end of 10 days either remit the cost, plus a few cents postage, or return the book pectual. return the book postpaid.

Mail the Coupon Today

	W-HILL BOO 42nd St., N.Y.		
tion on postage orders.	approval. In 1 , or return the	0 days I will sen book postpaid.	CS for 10 days examina- d \$4.00, plus a few cents (Postage paid on cash
Addres			
City		Zon	ieState
Compar	ıy		
Position			PT 8-48