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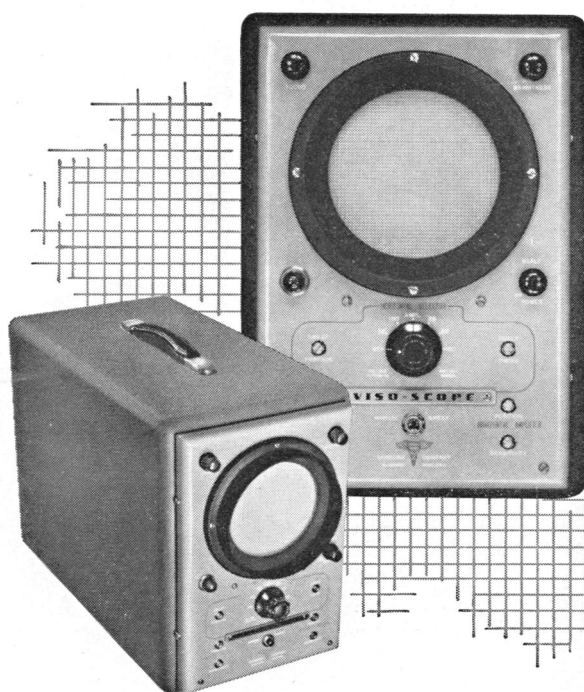
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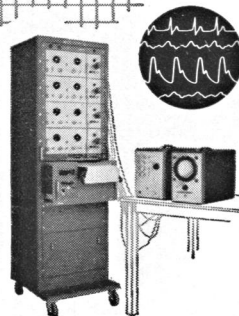
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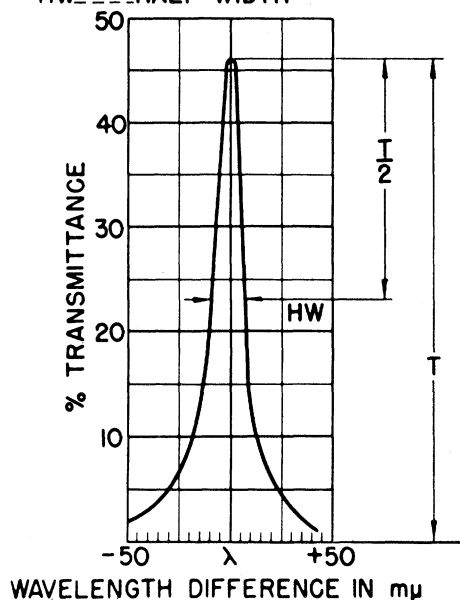


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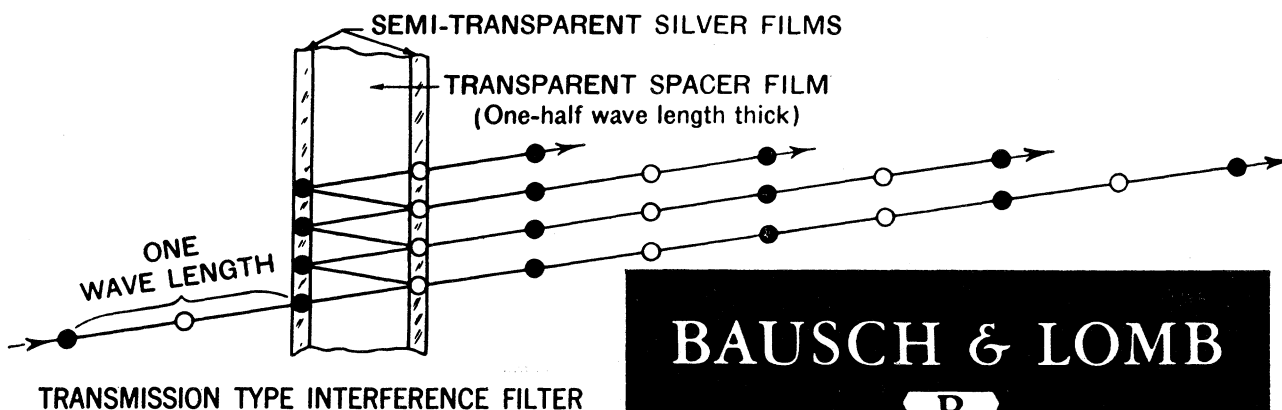


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work is being carried on today; both reviews are thoroughly up to date. These sections will be referred to constantly, particularly because of the extensive tables of wavelengths of emission lines (including satellites), wavelengths of absorption discontinuities, energy levels, and band widths which are included.

Kirkpatrick's fundamental work in x-ray microscopy is, of course, well known, and I was pleased to find in this all too brief section ("X-ray microscopy," 29 pages), for which Kirkpatrick and Pattee were responsible, a discussion of techniques which possibly may not be properly classified as x-ray microscopy. There is a discussion of microradiography, of x-ray projection microscopy, and of the focusing microscopes.

The concluding section, by Stephenson (52 pages), on "The continuous x-ray spectrum" is, for the most part, devoted to comparatively early work, although appropriate attention has been paid to more recent developments.

The final 14 pages consist of a dual index, in German and English, which will prove very useful to English-speaking readers whose knowledge of German may not be adequate.

On first reading the table of contents of this volume, I was frankly disappointed at some of the authors who had been chosen to write some sections; I would perhaps have chosen others. However, the wisdom of the choice is finally decided by the quality of the product. There is apparently something about the *Handbuch der Physik* which is very special: being asked to contribute to it apparently brings out the best in an author. All the papers are excellent and adequately detailed and, in spots, even make enjoyable reading. The choice of authors, therefore, was a happy one.

I. FANKUCHEN

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Books Reviewed in

The Scientific Monthly, August

An Introduction to Cybernetics, W. R. Ashby (Wiley). Reviewed by J. Rothstein.

The Criminal, the Judge, and the Public, F. Alexander and H. Staub (Free Press). Reviewed by F. Wertham.

Through Soviet Windows, J. E. Evans (Dow Jones). Reviewed by W. S. Vucinich.

Logic without Metaphysics, E. Nagel (Free Press). Reviewed by J. Turner.

Eisame Inseln: Eine Forscherfahrt im Persian Gulf, H. Heberlein (Orill Fusli). Reviewed by W. R. Holleman.

Medical Research: a Midcentury Survey, vol. 1, *American Medical Research: in Principle and Practice*; vol. 2, *Unsolved Clinical Problems: in Biological*

Perspective, E. E. Lape, Ed. (Little, Brown). Reviewed by B. Glass.

Common Frontiers of the Social Sciences, M. Komarovsky, Ed. (Free Press). Reviewed by B. H. Williams.

Machine Literature Searching, J. W. Perry, A. Kent, M. M. Berry (Western Reserve Univ. Press). Reviewed by K. F. Heumann.

The Land Called Me, E. J. Russell (Allen and Unwin). Reviewed by P. B. Sears.

Principles of Engineering Heat Transfer, W. H. Giedt (Van Nostrand). Reviewed by G. A. Hawkins.

Mission on the Nile, J. Dempsey (Philosophical Library). Reviewed by H. T. Straw.

Grasslands of the Great Plains, J. E. Weaver and F. W. Albertson (Johnson). Reviewed by H. G. Reynolds.

Weather, P. Lehr, R. W. Burnett, H. S. Zim (Simon and Schuster). Reviewed by S. S. Visser.

New Books

Radioastronomie. Raymond Coutrez. Edition du Patrimoine de l'Observatoire Royal de Belgique, Uccle, 1956. 391 pp. F. 250.

Lecture Notes on the Use of the Microscope. R. Barer. Thomas, Springfield, Ill., ed. 2, 1956. 76 pp. \$1.50.

Organic Chemistry. Louise Kelley. McGraw-Hill, New York, ed. 2, 1957 (ed. 1 by G. Albert Hill and Louise Kelly). 765 pp. \$7.50.

Comprehensive Inorganic Chemistry. vol. 6. *The Alkali Metals*. John F. Suttle. *Hydrogen and Its Isotopes*. Robert C. Brasted. Van Nostrand, Princeton, N.J., 1957. 242 pp. \$6.

Cell Physiology. Arthur C. Giese. Saunders, Philadelphia, Pa., 1957. 552 pp. \$10.

Mathematics for Everyman. From simple numbers to the calculus. Egmont Colerus. Translated by B. C. and H. F. Brookes. Emerson Books, New York, 1957. 266 pp. \$3.95.

Educating Gifted Children. Robert F. DeHaan and Robert J. Havighurst. University of Chicago Press, Chicago, Ill., 1957. 285 pp. \$5.

The Beginnings of Chinese Civilization. Three lectures illustrated with finds at Anyang. Li Chi. University of Washington Press, Seattle, 1957. 140 pp. \$6.50.

The Astonished Muse. Reuel Denney. University of Chicago Press, Chicago, Ill., 1957. 271 pp. \$4.50.

The Logical Problem of Induction. Georg Henrik von Wright. Macmillan, New York, ed. 2, 1957. 261 pp. \$4.

The Science of Engineering Materials. J. E. Goldman. Wiley, New York; Chapman & Hall, London, 1957. 543 pp. \$12.

The Modern Researcher. Jacques Barzun and Henry F. Graff. Harcourt, Brace, New York, 1957. 399 pp. \$6.

General Chemistry. A. W. Laubengayer. Rinehart, New York, rev. ed., 1957. 614 pp. \$6.50.

Trophoblastic Growths. Aclinal, hormonal, and histopathologic study of hydatidiform mole and chorionepithelioma. J. Smalbraak. Elsevier, Amsterdam, 1957. 354 pp. \$12.75.

About Earthquakes. G. A. Eiby. Harper, New York, 1957. 168 pp. \$3.

Advances in Enzymology and Related Subjects of Biochemistry. vol. XVIII. F. F. Nord, Ed. Interscience, New York, 1957. 440 pp. \$9.

Nuclear Engineering. Charles F. Bonilla, Ed. McGraw-Hill, New York, 1957. 861 pp. \$12.50.

The Making of a Moon. The story of the earth satellite program. Arthur C. Clarke. Harper, New York, 1957. 205 pp. \$3.50.

Principles of Stratigraphy. Carl O. Dunbar and John Rodgers. Wiley, New York; Chapman & Hall, London, 1957. 356 pp. \$10.

Pain and Pleasure. A study of bodily feelings. Basic Books, New York, 1957. 317 pp. \$5.50.

The Caricature of Love. A discussion of social, psychiatric, and literary manifestations of pathologic sexuality. Hervey Cleckley. Ronald, New York, 1957. 329 pp. \$6.50.

Experiments in Biochemical Research Techniques. Robert W. Cowgill and Arthur B. Pardee. Wiley, New York; Chapman & Hall, London, 1957. 198 pp. \$3.50.

Miscellaneous Publications

(Inquiries concerning these publications should be addressed, not to Science, but to the publisher or agency sponsoring the publication.)

A Study of AEC Procedures and Organization in the Licensing of Reactor Facilities. 218 pp. *Development of Scientific, Engineering, and Other Professional Manpower* (with emphasis on the role of the Federal Government). 172 pp. Joint Committee on Atomic Energy, 85th Congress, 1st session. U.S. Government Printing Office, Washington 25, 1957.

The Nature of Shield Abnormalities in the Turtle Shell. Fieldiana, Geology, vol. 10, No. 29. Rainer Zangerl and Ralph G. Johnson. 22 pp. \$0.60. *Notes on Amphibians and Reptiles from El Salvador*. Fieldiana, Zoology, vol. 34, No. 42. A. Stanley Rand. 30 pp. \$0.50. *Report on a Collection of Marine Fishes from North Borneo*. Fieldiana: Zoology, vol. 36, No. 3. Robert F. Inger. 65 pp. \$1. *The Subspecies of the Bush Shrike*. Laniarius fülleborni (including L. poensis). Fieldiana, Zoology, vol. 39, No. 6. Austin L. Rand. 4 pp. \$0.10. *Philippine Snails of the Family Endodontidae*. Philippine Zoological Expedition, 1946-1947. Fieldiana Zoology, vol. 41, No. 1. Alan Solem. 13 pp. \$0.40. Chicago Natural History Museum, Chicago, 1957.

Improving the Organization and Management of Your Engineering and Research and Development Departments. Wallace Clark & Co., 521 Fifth Avenue, New York 17. Free.

The Thrips of California. pt. 1, *Suborder Terebrantia*. Bulletin, California Insect Survey, vol. 4, No. 5, pp. 143-220. Stanley F. Bailey. University of California Press, Berkeley, 1957. 78 pp. \$1.50.