

professional organizations, state departments of education, and other organizations and individuals to settle for criteria by compromise. This study may well mark the beginning of a new era in the development of criteria based on fact.

The director of the study, David G. Ryans, was professor of educational psychology and research at the University of California (Los Angeles) and is now chairman of the department of educational psychology at the University of Texas. He is recognized by colleagues in his field as one of its leading scholars.

This book is not only required reading for the student of educational research, but it also should give enlightenment and encouragement to high school guidance counselors, the staff in higher institutions preparing teachers, superintendents of schools—in fact, to all who have a concern in the education and employment of teachers and in the improvement of the teaching function.

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Handbuch der Pflanzenanatomie. vol. 6, pt. 1, *Schizophyzeen*. Lothar Geitler. Gebrüder Borntraeger, Berlin, 1960. viii + 131 pp. Illus. DM. 46, subscription; DM. 57.50.

Faculty members on library committees as well as librarians winced at the announcement of each new monographic series in the biological sciences. Book funds are nearly depleted *ab initio* by standing orders. Nonetheless, thanks to the emphasis placed on research by government and industry, the number of libraries that can stand the financial strain is sufficiently large to guarantee publishers a profitable market. Small private institutions and individuals are casualties. So it is that each new series, and each component monograph, is received with mixed feelings. In some instances the duplication of material in existing series is so great that profit and prestige motives would seem to overshadow considerations of need and usefulness. The present monograph suffers only moderately from duplication, but the series of which it is a part has been a victim of overlapping by several newer series. The *Handbuch der Pflanzenanatomie*, founded by K. Linsbauer and continued by G. Tischler and

A. Pascher, can claim several classical treatises, including Kylin's *Anatomie der Rhodophyceen* (1937). Although the first edition of the *Handbuch* was never completed, a second edition is being prepared under the direction of W. Zimmermann and P. Ozenda.

Geitler is a renowned plant cytologist and systematist of blue-green algae, so his treatment in the *Handbuch* may justly be considered authoritative. The large amount of significant literature that has appeared since the first edition (1936) has been skillfully incorporated into this revision, which otherwise closely follows the original version. A notable change is the omission of the section on endophytic Cyanophyceae, which Geitler has recently treated elsewhere (in *Handbuch der Pflanzenphysiologie*, vol. 11, 1959). Among earlier reviews of the cytology, morphology, and reproduction of blue-green algae may be mentioned Geitler's treatment of Cyanophyceae in Pascher's *Süßwasser-Flora* (1925), in Rabenhorst's *Kryptogamen-Flora* (1930–1932), and in Engler and Prantl's *Natürlichen Pflanzenfamilien* (1942). Whether the currency gained in the present work is worth the price must be decided by each book-buying committee; I am happy that the liberal policy of my institution permits an affirmative decision.

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New Books

Reprints

And There Was Light. The discovery of the universe. Rudolf Thiel. Translated from the German by Richard and Clara Winston. New American Library, New York, 1960. 398 pp. Illus. \$0.75.

The Book of Scientific Discovery. How science has aided human welfare. D. M. Turner. Barnes and Noble, New York, ed. 3, 1960. 301 pp. Illus. \$1.75.

A Compendium of Spherical Astronomy. With its applications to the determination and reduction of positions of the fixed stars. Simon Newcomb. Dover, New York, 1960.

Concepts of Space. The history of theories of space in physics. Max Jammer. Harper, New York, 1960. 222 pp. Illus. \$1.40.

Darwin's Place in History. C. D. Darlington. Macmillan, New York, 1961. 100 pp. \$2.

Dynamics. Horace Lamb. Cambridge Univ. Press, New York, 1960. 362 pp. \$3.75.

Dynamics of Rigid Bodies. William

Duncan MacMillan. Dover, New York, 1960. 491 pp. \$2.

An Elementary Treatise on Curve Tracing. Percival Frost. Revised by R. J. T. Bell. Chelsea, New York, ed. 5, 1960. 224 pp.

The Exploration of Space. Arthur C. Clarke. Fawcett Publications, Greenwich, Conn., 1960. 192 pp. Illus. \$0.50.

The Foundations of Arithmetic. A logico-mathematical enquiry into the concept of number. Gottlob Frege. Translated by J. L. Austin. Harper, New York, 1960. \$1.25.

A History of the Theories of Aether and Electricity. vol. 1, *The Classical Theories*; vol. 2, *The Modern Theories, 1900–1926*. Sir Edmund Whittaker. Harper, New York, 1960. \$1.95 each.

An Introductory Treatise on Dynamical Astronomy. H. C. Plummer. Dover, New York, 1960. 365 pp. \$2.35.

An Introductory Treatise on the Lunar Theory. Ernest W. Brown. Dover, New York, 1960. 308 pp. \$2.

A Manual of Spherical and Practical Astronomy. vol. 1, *Spherical Astronomy*, 708 pp.; vol. 2, *Theory and Use of Astronomical Instruments* (method of least squares), 631 pp. + plates. William Chauvenet. Dover, New York, 1960. \$2.75 each; set, \$5.50.

The Mechanism of Evolution. W. H. Dowdswell. Harper, New York, 1960. 125 pp. \$0.95.

Molluscs. J. E. Morton. Harper, New York, 1960. 232 pp. Illus. \$1.40.

Natural Selection and Heredity. P. M. Sheppard. Harper, New York, 1960. 209 pp. \$1.35.

Our Atmosphere. Theo Loebsock. Translated from the German by E. L. and D. Rewald. New American Library, New York, 1961. 190 pp. Illus. \$0.50.

Petrology for Students. An introduction to the study of rocks under the microscope. Alfred Harker. Cambridge Univ. Press, New York, 1960. 289 pp. Illus. \$1.95.

Physics for Everybody. Germaine and Arthur Beiser. Dutton, New York, 1960. 191 pp. Illus. \$1.15.

Principles of Stellar Dynamics. S. Chandrasekhar. Dover, New York, 1960. 323 pp. Illus. \$2. Republication of *Principles of Stellar Dynamics* (Univ. of Chicago Press, Chicago, 1942); "Dynamical Friction" pts. 1 and 2 [*Astrophys. J.* 97, No. 2 (1943)]; and "New Methods in Stellar Dynamics" [*Ann. N.Y. Acad. Sci.* 45, article 3 (1943)].

Rats, Lice and History. Being a study in biography, which, after twelve preliminary chapters indispensable for the preparation of the lay reader, deals with the life history of typhus fever. Hans Zinsser. Bantam Books, New York, 1960. 238 pp. Illus. \$0.50.

Readable Relativity. Clement V. Durell. Harper, New York, 1960. 157 pp. Illus. \$1.25.

Statistical Thermodynamics. A course of seminar lectures. Erwin Schrodinger. Cambridge Univ. Press, New York, 1960. 95 pp. \$1.65.

The Universe Around Us. Sir James Jeans. Cambridge Univ. Press, New York, 1960. 307 pp. Illus. \$1.95.