

covered in a special chapter. A short section is devoted to the statistical nature of fatigue. A 50-page chapter deals with a description of some current standard aircraft processes and their relation to fatigue life.

All in all, the book appears well written and the figures are well illustrated and clearly documented. The author has written from the viewpoint that the reader already knows about the elementary aspects of fatigue, and therefore the book would not be well suited for the "uninitiated" researcher or student. Extensive references are listed at the end of each chapter and seem to be complete up to the year 1956. Very few papers are quoted beyond that year.

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New Books

Biological and Medical Sciences

The Cell. Biochemistry, physiology, morphology. vol. 2, *Cells and Their Component Parts*. Jean Brachet and Alfred E. Mirsky, Eds. Academic Press, New York, 1961. 929 pp. Illus. \$25.

Electrophysiological Methods in Biological Research. J. Bures, M. Petran, and J. Zachar, Eds. Publishing House of the Czechoslovak Acad. of Sciences, Prague; Academic Press, New York, 1960. 515 pp. Illus. \$15.

Etudes d'endocrinologie. pt. 1, *Les gonadotropines*; pt. 2, *Rapports entre le complexe hypothalamo-hypophysaire et la fonction adrénocorticotrope*. Hermann, Paris, 1961. 350 pp. Illus. Séminaires 1960 de la chaire de morphologie expérimental et endocrinologie du Collège de France dirigés par le Professeur Robert Courrier.

Fish as Food. vol. 1, *Production, Biochemistry, and Microbiology*. Georg Borgstrom, Ed. Academic Press, New York, 1961. 741 pp. Illus. \$24.

General

Anatomy of the Future. Roderick Siedenbergh. Univ. of North Carolina Press, Chapel Hill, 1961. 173 pp. \$3.50.

Darwinism and the Study of Society. A centenary symposium. Michael Banton, Ed. Tavistock, London; Quadrangle Books, Chicago, Ill., 1961. 211 pp. \$5. Contributions by Michael Banton, S. A. Barnett, Tom Burns, B. Farrington, Morris Ginsbert, Lancelot Hogben, George Shepperson, J. Maynard Smith, W. Stark, C. H. Waddington, and Basil Willey.

Educators Guide to Free Films. Mary Foley Horkheimer and John W. Diffor, Eds. Educators Progress Service, Randolph, Wis. ed. 21, 1961. 646 pp. \$9.

Essay on Atomism. From Democritus to 1960. Lancelot Law Whyte. Wesleyan

Univ. Press, Middletown, Conn., 1961. 108 pp. \$2.95.

Fabric of Freedom 1763-1800. Esmond Wright. Hill and Wang, New York, 1961. 311 pp. \$4.50.

Growing Old. The process of disengagement. Elaine Cumming and William E. Henry. Basic Books, New York, 1961. 309 pp. \$6.75.

Management Games. A new technique for executive development. Joel M. Kibbee, Clifford J. Craft, and Burt Nanus. Reinhold, New York; Chapman and Hall, London, 1961. 359 pp. Illus. \$10.

Marriage and the Family. Alfred McClung Lee and Elizabeth Briant Lee. Barnes and Noble, New York, 1961. 396 pp. Paper, \$2.25.

Michael Faraday. A list of his lectures and published writings. Alan E. Jeffreys. Published for the Royal Institution of Great Britain. Academic Press, New York; Chapman and Hall, London, 1960. 114 pp. Illus.

The Mystery of Life. Arnold M. Ludwig. Thomas, Springfield, Ill., 1961. 158 pp. \$5.75.

Mythologies of the Ancient World. Samuel Noah Kramer, Ed. Quadrangle Books, Chicago, Ill., 1961. 480 pp. \$7.50.

The Nature of Genius. Andrew Gemant. Thomas, Springfield, Ill., 1961. 216 pp. \$6.50.

Nuclear Physics in Peace and War. Peter E. Hodgson. Hawthorn, New York, 1961. 156 pp. \$3.50.

A Patent Manual for Scientists and Engineers. George M. Naimark. Thomas, Springfield, Ill., 1961. 123 pp. \$5.50.

Patients' Views of Medical Practice. Eliot Freidson. Russell Sage Foundation, New York, 1961. 268 pp. Illus. \$3.75.

Proceedings of the Natural Rubber Research Conference, Kuala Lumpur, 1960. Rubber Research of Malaya, Kuala Lumpur, Selangor, Federation of Malaya, 1961. 1015 pp. Illus.

A Report to the National Academy of Sciences-National Research Council from the USA National Committee of the International Scientific Radio Union. On the 13th General Assembly, 5-15 September 1960, London, England. Publ. 880. John P. Hagen, Ed. Natl. Acad. of Sciences-Natl. Research Council, Washington, D.C., 1961. 595 pp. Illus. \$5. Discussion of the status and problems of radio science.

The Slow Learner in the Classroom. Newell C. Kephart. Merrill Books, Columbus, Ohio, 1960. 303 pp. Illus. + plate.

Technical Report Writing. Fred H. Rhodes. McGraw-Hill, New York, ed. 2, 1961. 175 pp. Illus. \$5.50.

Toward the Conquest of Cancer. O. A. Battista. Chilton, Philadelphia, Pa., 1961.

Mathematics, Physical Sciences, and Engineering

Absorption Spectra in the Ultraviolet and Visible Region. L. Lang, Ed. Academic Press, New York, 1961. 414 pp. Ring binder, \$18.

International Conference on Theoretical Aspects of Very High-Energy Phenomena. J. S. Bell et al., Eds. European Organization for Nuclear Research, Geneva, Switz-

erland, 1961. 431 pp. Conference sponsored by the International Union of Pure and Applied Physics, held at CERN 5-9 June 1961.

Introduction to Astronomy. Dean B. McLaughlin. Houghton Mifflin, Boston, 1961. 471 pp. Illus. \$7.50.

Molecular Sieves. Charles K. Hersh. Reinhold, New York; Chapman and Hall, London, 1961. 136 pp. Illus. \$6.50.

Nuclear Reactor Instrumentation. M. W. Jervis. Temple Press, London, 1961. 81 pp. Illus. \$2.95.

On the Various Forces of Nature. Michael Faraday. Crowell, New York, 1961. 186 pp. Illus. \$2.75. Christmas lectures given by Faraday at the Royal Institution (London) in 1859-60; introduction (by J. Arthur Thomson) is an adaptation of material published in the Crowell edition of *The Chemical History of a Candle*.

Probability and Experimental Errors in Science. An elementary survey. Lyman G. Parratt. Wiley, New York, 1961. 270 pp. Illus. \$7.25.

Systems: Research and Design. Proceedings of the first systems symposium at Case Institute of Technology. Donald P. Eckman, Ed. Wiley, New York, 1961. 323 pp. Illus. \$8.50.

The Teaching of Arithmetic. F. F. Potter. Philosophical Library, New York, 1961. 471 pp. Illus. \$4.75.

Transactions of the Symposium on Electrode Processes. Ernest Yeager, Ed. Wiley, New York, 1961. 388 pp. Illus. \$20. Papers presented at a symposium sponsored by the Electrochemical Society (Philadelphia, Pa., 4-6 May 1959).

Transactions of the Vacuum Metallurgy Conference, 1960. Rointan F. Bunshah, Ed. Interscience, New York, 1961. 362 pp. Illus. \$13.50.

Natural History Reprints

Dwellers in Darkness (S. H. Skaife. 194 pp. \$0.95); **From Fish to Philosopher** (Homer W. Smith. 313 pp. \$1.45); **Horses** (George Gaylord Simpson. 359 pp. \$1.45); **John and William Bartam's America** (Helen Gere Cruickshank, Ed. 396 pp. \$1.45); **John Burroughs' America** (Farida A. Wiley, Ed. 310 pp. \$1.45); **Modern Science and the Nature of Life** (William S. Beck. 351 pp. \$1.45); **The Mountains of California** (John Muir. 316 pp. \$1.25); **The Ocean Island (Inagua)** (Gilbert C. Klingel. 430 pp. \$1.45); **The Exploration of the Colorado River** (John Wesley Powell. 189 pp. \$0.95); **The Pacific Islands** (Douglas L. Oliver. 479 pp. \$1.45); **Shearwaters** (R. M. Lockley. 272 pp. \$1.25); **The Wandering Albatross** (William Jameson. 154 pp. \$0.95); **White Waters and Black** (Gordon MacCreagh. 351 pp. \$1.45). First in the new paperback series, "The Natural History Library." Scientists at the American Museum of Natural History will help to select titles for the series and will write forewords to some of the volumes, which will be published in cooperation with Doubleday and Company (Garden City, N.Y.). Additional titles are planned for early 1962.