

and methods of measurement is referred to as "physiologische Rationalisierung." Its aim is a more effective adaptation of the work place and the work conditions to the structural and functional characteristics of man. In the section on special senses the author is satisfied with a general statement on the relationship between illumination intensity and performance, without direct reference to experimental evidence. Lehmann brings up the point that over the years the level of required illumination has steadily increased, paralleling man's ability to produce artificial light. Strangely enough, he does not stress the need for the differentiation between physiological needs and the practical, i.e., technological and economic possibilities.

There are several short chapters in which the practical importance of the subject matter is out of step with the available data or with the scientist's ability to solve the problems with present-day methods. One chapter deals with job evaluation. There is an interesting discussion of the problem of fatigue allowances, without providing a satisfactory solution for the overwhelming majority of jobs in modern industry. The

problem of fatigue and recovery after work was discussed at some length in an earlier chapter, together with training, measurement of performance capacity, age and sex differences, and posture. The relationships between nutrition and industrial work were examined briefly. Of special interest is a graph (p. 126) indicating the reduction of performance associated with a restriction of caloric intake. It is unfortunate that empirical data are not provided, as both theoretical considerations and some experimental data would lead one to expect a smaller decrement in the light and a larger decrement in heavy work than is suggested by the author.

The book is a welcome addition to applied physiology but it does not answer the need for a comprehensive treatment of the physiological (and psychophysiological) problems in industry. The fact that the literature cited is principally German constitutes an obvious limitation.

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## Scientific Book Register

**Algal Culture: From Laboratory to Pilot Plant.** John S. Burlew, Ed. Washington, D. C.: Carnegie Inst. of Washington, 1953. 357 pp. Illus. \$1.25.

**Introduction to Electron Microscopy.** Cecil E. Hall. New York-London: McGraw-Hill, 1953. 451 pp. Illus. \$9.00.

**Present Problems in Nutrition Research.** (In German, English, and French.) Symposium held in Basel, Switz., October 1-4, 1952. F. Verzár, Ed. Basel-Stuttgart: Verlag Birkhäuser, 1953. 312 pp. Illus. Sw. fr. 32.

**A Laboratory Manual of Experiments in Physics.** 6th ed. Leonard R. Ingersoll, Miles J. Martin, and Theodore A. Rouse. New York-London: McGraw-Hill, 1953. 286 pp. Illus. \$4.00.

**Stedman's Medical Dictionary.** 18th ed. Norman Burke Taylor in collab. with Allen Ellsworth Taylor, Eds. Baltimore: Williams & Wilkins, 1953. 1561 pp. Illus. + plates. \$11.50.

**Substance and Function and Einstein's Theory of Relativity.** Repr. Ernst Cassirer. Trans. by W. C. Swabey and M. C. Swabey. New York: Dover, 1953. 465 pp. \$1.95; cloth, \$3.95.

**Organic Analysis,** Vol. I. John Mitchell, Jr., et al., Eds. New York-London: Interscience, 1953. 473 pp. Illus. \$8.50.

**Practical Taxidermy: A Working Guide.** John W. Moyer. New York: Ronald Press, 1953. 126 pp. Illus. \$3.00.

**Atomic Medicine.** 2nd ed. Charles F. Behrens, Ed. Baltimore: Williams and Wilkins, 1953. 632 pp. Illus. \$11.00.

**Teamwork in Research.** George P. Bush and Lowell H. Hattery, Eds. Washington, D. C.: American Univ. Press, 1953. 191 pp. Illus. \$4.00.

**Sexual Behavior in the Human Female.** Alfred C. Kinsey, Wardell B. Pomeroy, Clyde E. Martin, and Paul H. Gebhard. Philadelphia-London: Saunders, 1953. 842 pp. Illus. \$8.00.

**Synthetic Methods of Organic Chemistry,** Vol. 7. W. Theilheimer. Basel: S. Karger; New York-London: Interscience, 1953. 450 pp. \$14.90.

**Advances in Veterinary Science,** Vol. I. C. A. Brandly and E. L. Jungherr, Eds. New York: Academic Press, 1953. 431 pp. Illus. \$9.00.

**Culture Change.** An analysis and bibliography of anthropological sources to 1952. Stanford Anthropological Series No. 1. Felix M. Keesing. Stanford: Stanford Univ. Press, 1953. 242 pp. \$4.00.

**Plant Growth Substances.** L. J. Audus. London: Leonard Hill, 1953. 465 pp. Illus. + plates. 42s.

**Bacterial Genetics.** Werner Braun. Philadelphia-London: Saunders, 1953. 238 pp. Illus. \$6.50.

**Medical Research: Medical History of the Second World War.** F. H. K. Green and Gordon Covell, Eds. London: H. M. Stationery Office, 1953. 387 pp. 40s.

**Algebraic Geometry.** Solomon Lefschetz. Princeton: Princeton Univ. Press, 1953. 233 pp. \$5.00.

**Conversation with the Earth.** Hans Cloos. Trans. of *Gespräch mit der Erde* by E. B. Garside; ed. by Ernst Cloos and Curt Dietz. New York: Knopf, 1953. 409 pp. Illus. + plates + index. \$5.75.

**Twenty Years of Psychoanalysis.** A symposium in celebration of the 20th anniversary of the Chicago Institute for Psychoanalysis. Franz Alexander and Helen Ross, Eds. New York: Norton, 1953. 309 pp. \$3.75.

**Your Trip into Space.** Lynn Poole. New York-London: Whittlesey House, McGraw-Hill, 1953. 224 pp. Illus. \$2.75.

**A Manual for the Organic Chemistry Laboratory.** Leigh C. Anderson and Werner E. Bachmann. New York: Wiley; London: Chapman & Hall, 1953. 164 pp. Illus. \$2.75.

**Fatigue of Metals.** R. Cazaud; trans. by A. J. Fenner. New York: Philosophical Library, 1953. 334 pp. Illus. + plates. \$12.50.