

careless misprints. Lower case and capitals are used indiscriminately for the velocity of light (pp. 15, 16, 21, 31, 35, 38, 75, and 98); formula (18-19) should contain the factor v_2/v_1 and not v^2/v ; and the lines immediately preceding formulas (26-4) and (26-5) are grammatically unintelligible.

It may seem paradoxical to say, after raising these objections, that I found the book very interesting and stimulating. I recommend it unreservedly to those who already have some knowledge of relativity and particularly to persons who, like myself, teach general relativity to graduate students in physics. Such readers will discover, as I did, why their students have the ideas that they do have about relativity!

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Traditional Statistical Methods

Statistical Inference. vols. 1 and 2. vol. 1, *A Non-Mathematical Exposition of the Theory of Statistics* [678 pp.; rev. ed. of *Introduction to Statistical Inference* (1957)]; vol. 2, *The Multiple Regression and Its Ramifications* [589 pp.], Jerome C. R. Li. Edwards, Ann Arbor, Mich., 1964. Illus. \$10 each vol.

This is a large, but not particularly expensive, exposition of the traditional statistical methods on a nontheoretical level. Volume 1 is very nonmathematical and covers such topics as descriptive statistics, "test of hypothesis," one- and two-sample *t*-tests, the *F*-test, confidence intervals, one-way analysis of variance, randomized blocks, linear regression, factorial experiments, analysis of covariance, binomial and multinomial sampling, transformations, and some distribution-free methods. It has an adequate selection of the standard tables. It uses sampling experiments to demonstrate the properties of many of the standard distributions. It uses 1.75 inches of a page to prove that $\Sigma(y - \bar{y}) = 0$. Volume 2, on the other hand, starts a 39-page chapter in which the author expounds the techniques useful for a matrix exposition of multiple regression, and subsequently uses these techniques for curvilinear regression, unbalanced two-way analysis of variance, and the like. The treatment of

such topics as confounding and fractional replication is probably too brief even to convey the ideas of these techniques.

The style is at times somewhat quaint—for example, "Mergence of factorial experiment and analysis of covariance causes a conflict in notations" (p. 430); Section 31.10 is headed "Advantages of Response Surface," and "In order to use u-test" (p. 64). Section 23.4, "Logarithmic Transformation," begins with "The logarithmic transformation, like the square root transformation, is used on the data which consist of counts," which I interpret, perhaps mistakenly, to be an implied recommendation for such a procedure.

There are a number of similar texts available, and they have their relative strengths and weaknesses. Li's main strength is undoubtedly the enormously detailed exposition of multiple regression and its application to analysis of variance. Weaknesses include a rather light treatment of distribution-free methods, in effect dealing only with the sign and median tests, and omitting the various rank tests. The mixed model in two-way analysis of variance is omitted. There is no probability theory.

Each chapter is well supplied with numerical exercises (with answers), which frequently deal with real data from real problems.

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Biology Laboratory Guide

Practical Biology. C. Dodds and J. B. Hurn. Arnold, London; St. Martin's Press, New York, 1965. 112 pp. Illus. \$3.

This is a laboratory guide for use in secondary school biology courses. The authors have "aimed at developing the powers of observation, using the three fundamental techniques of biology; dissection, microscopy and simple experiments with living organisms." To this end the manual is divided into a section of 44 double-column pages on zoology, which covers in systematic and comprehensive fashion the animal kingdom, with some attention also to development and to cells and tissues. There follows a 26-page equally comprehensive section on botany. The final section (24 pages)

is concerned with experiments on irritability, movement, nutrition, respiration, excretion, and growth and reproduction.

The approach to the observation of plants and animals is carefully and systematically developed to provide a rich and extensive experience in biology for the secondary school student. The number of forms covered is far more than can be accommodated in the average high school biology course, but this manual seems to be ideal for use with the new AIBS biology courses, particularly since the section on experiments is not only comprehensive but well designed for the use of simple apparatus for effective investigation of living phenomena. This is an excellent way to introduce the student to the scientific method.

The manual is profusely illustrated with good three-dimensional drawings. Interlaced with the directions throughout there is sufficient discussion of the interrelation of structure and function to interest and challenge the student. This, in brief, is a very useable "practical biology."

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New Books

Biological and Medical Sciences

The Action of Neuroleptic Drugs. A psychiatric, neurologic, and pharmacological investigation. Hans-J. Haase and Paul A. J. Janssen. Year Book Medical Publishers, Chicago, 1965. 182 pp. Illus. \$7.75.

Acute Problems in Resuscitation and Hypothermia. Proceedings of a symposium (Moscow), September 1964. V. A. Negovskii, Ed. Translated from the Russian edition (Moscow, 1964) by Basil Haigh. Consultants Bureau, New York, 1965. 99 pp. Paper, \$15.

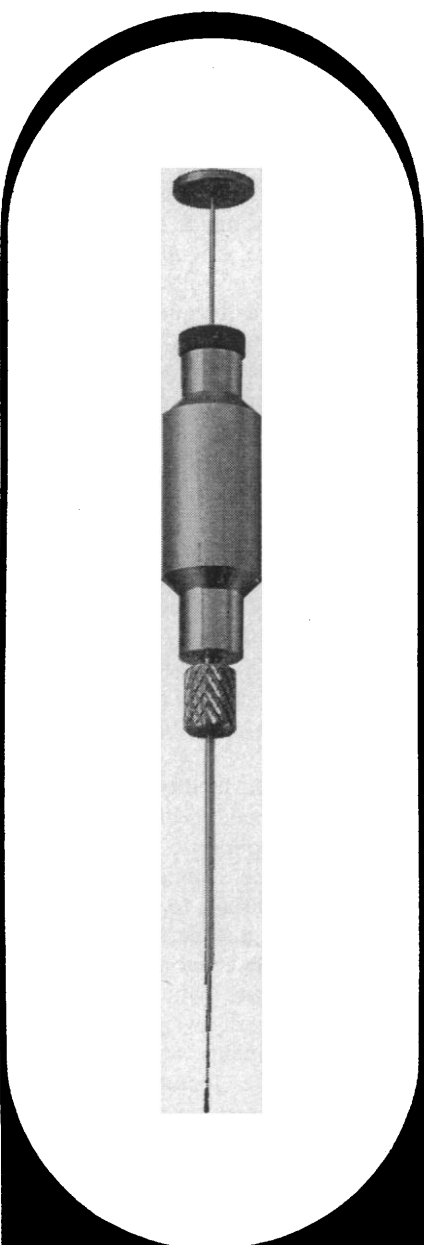
Adaptive Growth. Richard J. Goss. Logos Press, London; Academic Press, New York, 1965. 360 pp. Illus. \$12.

Adrenal Steroids and Disease. Cuthbert L. Cope. Lippincott, Philadelphia, 1965. 839 pp. Illus. \$24.

Antimicrobial Agents and Chemotherapy, 1964. Proceedings, Fourth Inter-science Conference (New York), October 1964. J. C. Sylvester, Ed. American Soc. for Microbiology, Ann Arbor, Mich., 1965. 803 pp. Illus. \$15. One-hundred and thirty-six papers.

Annual Review of Medicine. vol. 16. Arthur C. DeGraff and William P. Creger, Eds. Annual Reviews, Palo Alto, Calif., 1965. 481 pp. \$8.50. Twenty-four papers.

(Continued on page 480)



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NEW BOOKS

(Continued from page 416)

Aspects Anatomo-Fonctionnels de la Physiologie du Sommeil. Colloquium (Lyon), September 1963. M. Jouvet, Ed. Editions du Centre National de la Recherche Scientifique, Paris, 1965. 657 pp. Illus.

Atlas of Histology. Sam J. Piliero, Myron S. Jacobs, and Saul Wischnitzer. Lippincott, Philadelphia, 1965. 415 pp. Illus. \$7.50.

Bacteriology Illustrated. R. R. Gillies and T. C. Dodds. Williams and Wilkins, Baltimore, 1965. 171 pp. Illus. \$9.75.

Basic Biochemistry. Max E. Rafelson, Jr., and Stephen B. Binkley. Macmillan, New York, 1965. 364 pp. Illus. Paper, \$6.50; cloth, \$8.50.

Basic Concepts of Ecology. Clifford B. Knight. Macmillan, New York, 1965. 480 pp. Illus. \$8.50.

Beziehungen zwischen den physikalisch-chemischen Eigenschaften und der Wirkung von Lokalanästhetika. Jakob Büchi and Xavier Perlin. Cantor, Württ., Germany, 1962. 284 pp. Illus.

Biochemistry of the Amino Acids. vols. 1 and 2. Alton Meister. Academic Press, New York, ed. 2, 1965. vol. 1, 737 pp., \$22; vol. 2, 516 pp., \$20. Illus. \$38 set.

Biological Rhythm Research. A. Sollberger. Elsevier, New York, 1965. 481 pp. Illus. \$25.

Biological Rhythms. Alain Reinberg and Jean Ghata. Translated from the French edition (Paris) by C. J. Cameron. Walker, New York, 1964. 152 pp. Illus. \$3.50.

Brain Function. vol. 2, *RNA and Brain Function Memory and Learning.* Proceedings of the second conference, 1962. Mary A. B. Brazier, Ed. Univ. of California Press, Berkeley, 1964. 376 pp. Illus. \$10. UCLA Forum in Medical Sciences Series, vol. 2, edited by Victor E. Hall. Fourteen papers contributed by M. W. Nirenberg, H. Hydén, S. L. Palay, W. Hild, J. V. Luco, E. R. John, F. Morrell, L. Weiskrantz, W. R. Adey, W. Feindel, M. A. B. Brazier, M. Victor, O. E. Reynolds, and A. B. Kogan.

Calcified Tissues. Proceedings, Second European Symposium (Liège, Belgium), March and April 1964. L. J. Richelle and M. J. Dallemagne, Eds. Collection des Colloques de l'Université de Liège, Liège, Belgium, 1965. 487 pp. Illus. Forty-two papers in English, French, or German. The volume is a record of the proceedings of a symposium organized in March 1964 by the University of Liège. The symposium afforded some 105 European and American scientists, including 10 from the United States, an opportunity to discuss recent work on bone and tooth research.

Cell Culture in the Study of Bacterial Disease. Morris Solotorovsky, Ed. Rutgers Univ. Press, New Brunswick, N.J., 1965. 129 pp. Illus. Paper, \$4. Thirteen papers presented at the annual research conference (1963) sponsored by the Bureau of Biological Research, Rutgers University.

Cellular Radiation Biology. Papers presented at the 18th Annual Symposium on Fundamental Cancer Research (Austin, Texas), 1964. Williams and Wilkins,

Baltimore, 1965. 630 pp. Illus. \$16. Thirty-seven papers on the following topics: Radiation effects on macromolecules (4 papers); Radiation effects on replication T. Woodburne. Oxford Univ. Press, New cal structures in radiation phenomena (4 papers); Modification of radiation response (4 papers); Radiosensitivity in the replication cycle of cells and the relation of fractionation in radiotherapy (10 papers); and Responses in mammalian cells and the implications for radiotherapy of cancer (10 papers). The volume also includes the Bertner Foundation Award Lecture: "Radiation biology and cancer" by L. H. Gray.

Cytologic Studies on Phloem (Univ. Calif. Publs. Bot. 36, No. 3). Katherine Esau and Vernon I. Cheadle. Univ. of California Press, Berkeley, 1965. 92 pp. Illus. Paper, \$2.50.

Drugs and Enzymes. Papers presented at the Second International Pharmacological Meeting (Prague). Bernard B. Brodie and James R. Gillette, Eds. Pergamon, New York, 1965. 516 pp. Illus. \$15. Forty-one papers on the following topics: Relationship between biochemical effects of drugs in vitro and their pharmacological effect in vivo (20 papers), and Biochemical mechanisms of drug toxicity (21 papers).

Ecology of Western North America. vol. 1. A symposium of the Pacific Division, AAAS (Vancouver, B.C.), June 1964. V. J. Krajina, Ed. Department of Botany, Univ. of British Columbia, Vancouver, Canada, 1965. 112 pp. Illus. Paper, \$2.50. Ten papers contributed by M. A. M. Bell, T. C. Brayshaw, R. C. Brooke, V. J. Krajina, R. G. McMinn, Dieter Mueller-Dombois, Laszlo Orloci, E. B. Peterson, and R. B. Smith.

Essays in Biochemistry. vol. 1. P. N. Campbell and G. D. Greville, Eds. Published for the Biochemical Society by Academic Press, London, 1965. 182 pp. Illus. Paper, 18s. 6d. Five essays: "The role of CO₂ fixation in metabolism" by Harland G. Wood and Merton F. Utter; "On the mechanism of muscular contraction" by R. E. Davies; "Sequence determination in nucleic acids" by K. Burton; "Oxidative phosphorylation" by D. E. Griffiths; and "The biochemists' green mansions: The photosynthetic electron-transport chain in plants" by R. Hill.

Essentials of Human Anatomy. Russell T. Woodburne. Oxford Univ. Press, New York, ed. 3, 1965. 685 pp. Illus. \$15.

Evaluation of New Drugs in Man. Papers presented at the Second International Pharmacological Meeting (Prague). Eleanor Zaimis and Jiří Elis, Eds. Pergamon, New York, 1965. 226 pp. Illus. \$9. Seventeen papers.

The Evolution of Genetics. Arnold W. Ravin. Academic Press, New York, 1965. 226 pp. Illus. Paper, \$2.95; cloth, \$6. Academic Paperback in Biology, edited by Alvin Nason.

Floral Biology. Mary Percival. Pergamon, New York, 1965. 249 pp. Illus. Paper, 20s. Commonwealth and International Library of Science, Botany Division, edited by G. F. Asprey, J. Brady, and A. G. Lyon.

Fluid Therapy: And Disorders of Electrolyte Balance. W. H. Taylor. Davis, Philadelphia, 1965. 191 pp. Illus. Paper, \$3.50.

Genetics and the Epidemiology of Chronic Diseases. A symposium (Ann Arbor, Mich.), June 1963, sponsored by U.S. Public Health Service, Univ. of Michigan Medical School, and Univ. of Michigan School of Public Health. U.S. Dept. of Health, Education, and Welfare, Washington, D.C., 1965. 403 pp. Illus. Paper, \$1.50 (order from Superintendent of Documents, Washington, D.C.). Twenty-five papers on the following topics: Basic genetic and epidemiological principles (7 papers); The evaluation of genetic factors in selected illustrative diseases (3 papers); Problems in the experimental design of epidemiological studies (3 papers); Current epidemiological problems (2 papers); Longevity and coronary artery disease (3 papers); Regional variations in morbidity and mortality (3 papers); Malignant diseases (3 papers); and Genetic counseling (1 paper).

A Guide-Book to Biochemistry. Kenneth Harrison. Cambridge Univ. Press, New York, ed. 2, 1965. 160 pp. Illus. Paper, \$1.95; cloth, \$3.95.

Handbuch der Histochemie. Walther Graumann and Karheinz Neumann, Eds. vol. 7, pts. 3 and 4; vol. 7, *Enzyme*, pt. 3, *Female Genital System* (198 pp., 1963, DM. 52) by Joseph Thomas Velardo and Charles G. Rosa; pt. 4, *Intrazelluläre Lokalisation der Enzyme: Enzyme bei der Ontogenese* (336 pp., 1964, DM. 93) by Robert M. Rosenbaum and Ferdinando Rossi. Fischer, Stuttgart, Germany, Illus.

Human Chromosome Methodology. Jorge J. Yunis, Ed. Academic Press, New York, 1965. 272 pp. Illus. \$8.50. Ten papers: "Sex chromatin techniques" by Murray L. Barr; "Human peripheral blood leucocyte cultures" by William J. Mellman; "Direct chromosome preparations of bone marrow cells" by J. H. Tjio and J. Whang; "The skin culture technique" by D. G. Harnden and Sheila Brunton; "Direct handling of germ cells" by Susumu Ohno; "Autoradiography of human chromosomes" by Werner Schmid; "Bright field, phase contrast, and fluorescence microscopy" by Walter J. Runge; "Applied photography in chromosome studies" by Leroy P. Christenson; "Identification of chromosomes" by Klaus Patau; and "Human chromosomes in disease" by Jorge J. Yunis.

Illustrated Tumor Nomenclature. Published for the International Union Against Cancer by Springer-Verlag, New York, 1965. 331 pp. Illus. \$36.

Induction of Labor. Harry Fields, John W. Greene, Jr., and Kaighn Smith. Macmillan, New York, 1965. 251 pp. Illus. \$5.95.

Interacting Systems in Development. James D. Ebert, Holt, Rinehart, and Winston, New York, 1965. 237 pp. Illus. Paper, \$3. Modern Biology Series.

International Review of Cytology. vol. 18. G. H. Bourne and J. F. Danielli, Ed. Academic Press, New York, 1965. 438 pp. Illus. \$16. Nine papers: "The cell of Langerhans" by A. S. Breathnach; "The structure of the mammalian egg" by Robert Hadek; "Cytoplasmic inclusions in oogenesis" by M. D. L. Srivastava; "The classification and partial tabulation of enzyme studies on subcellular fractions isolated by differential centrifuging"

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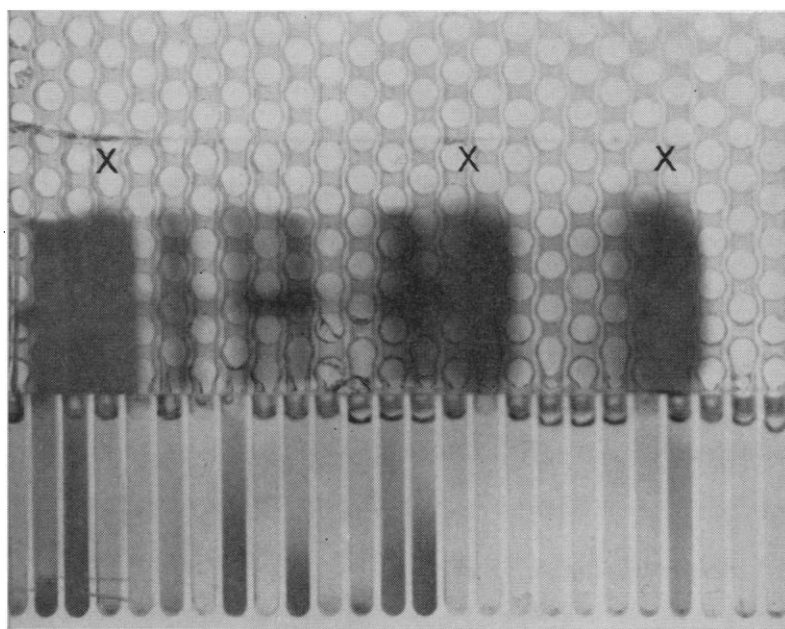
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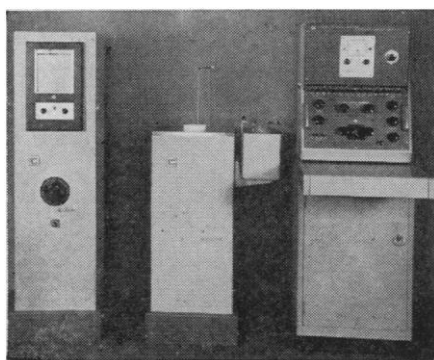
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Introductory Soils. Kermit C. Berger. Macmillan, New York, 1965. 381 pp. Illus. \$5.95.

Investigations into Biology. Robert W. Korn and Ellen J. Korn. Wiley, New York, 1965. 418 pp. Illus. Paper, \$4.50.

Isotopes in Biochemistry (Theory, Problems, Results). S. Z. Roginskii and S. E. Shnol'. Translated from the Russian edition (Moscow, 1963) by F. Borek and IPST Staff. Israel Program for Scientific Translations, Jerusalem; Davey, New York, 1965. 320 pp. Illus. \$15.25.

Laboratory Exercises in Zoology. E. Lendell Cockrum, William J. McCauley, and Russell Davis. Saunders, Philadelphia, 1965. 402 pp. Illus. Paper, \$4.50.

Manual for the Identification of Medical Bacteria. S. T. Cowan and K. J. Steel. Cambridge Univ. Press, New York, 1965. 227 pp. \$9.50.

Microscopic Diagnosis of the Parasites of Man. Robert B. Burrows. Yale Univ. Press, New Haven, Conn., 1965. 340 pp. Illus. \$15.

Neuroanatomy: A Programmed Text. vol. 1. Richard L. Sidman and Murray Sidman. Little, Brown, Boston, 1965. 655 pp. Illus. Paper, \$11.50.

The Pharmacopeia of the United States of America (The United States Pharmacopeia). Official from 1 September 1965. Prepared by the Committee of Revision, United States Pharmacopeia, directed by Lloyd C. Miller. United States Pharmacopeial Convention, New York, ed. 17, 1965. 1222 pp. Illus. \$12.50 (order from Mack, Easton, Pa.).

The Physiology of Blood Platelets: Recent Biochemical, Morphologic, and Clinical Research. Aaron J. Marcus and Marjorie B. Zucker. Grune and Stratton, New York, 1965. 172 pp. \$7.

Principles of Forest Entomology. Samuel Alexander Graham and Fred Barrows Knight. McGraw-Hill, New York, ed. 4, 1965. 429 pp. Illus. \$12.50. American Forestry Series, edited by Henry J. Vaux.

Progress in Brain Research. vol. 10, *Structure and Function of the Epiphysis Cerebri.* J. Ariëns Kappers and J. P. Schadé, Eds. Elsevier, New York, 1965. 710 pp. Illus. \$37.50. Thirty-seven papers on the following topics: Development, light microscopic anatomy and cytology, innervation and vascularization (9 papers); Electron microscopical structure (7 papers); Biochemistry and cytochemistry (5 papers); and Physiology, pharmacology and endocrinology (16 papers).

Psychoanalysis and Social Research. The psychoanalytic study of the non-patient. Herbert Hendin, Willard Gaylin, and Arthur Carr. Doubleday, Garden City, N.Y., 1965. 114 pp. \$2.95.

Psychosomatic Disorders in Adolescents and Young Adults. Proceedings of a conference (London), November 1960. John Hambling and Philip Hopkins, Eds. Pergamon, London; Macmillan, New York, 1965. 256 pp. Illus. \$8.50. Seventeen papers contributed by Kenneth Soddy, M. E. M. Herford, Brian Davy, Ilse Hellman, Norman Morris, Philip Hopkins, Pamela MacKinnon, Joseph Sandler, Desmond Pond, David Pyke, E. Lipman Cohen, John Hambling, Griffith Binning, Lars Bagge, D. W. Winnicott, Henry V. Dicks, and Desmond O'Neill.

Récents Progrès en Vitaminologie. Conference (Rennes, France), March 1964. Centre National de la Recherche Scientifique, Paris, 1965. 697 pp. Illus. Paper.

Research in Demyelinating Diseases (*Ann. N.Y. Acad. Sci.* 122, art. 1). Harold E. Whipple, Ed. New York Academy of Sciences, New York, 1965. 570 pp. Illus. Paper, \$12. Forty-nine papers presented at a conference held in January 1964. The topics considered included Morphology of myelin (7 papers); Chemistry of myelin (7 papers); Etiology of experimental allergic encephalomyelitis (7 papers); Pathogenesis of experimental allergic encephalomyelitis (9 papers); Inhibition of experimental allergic encephalomyelitis (4 papers); Laboratory studies in multiple sclerosis (6 papers); and Clinical studies in multiple sclerosis (9 papers).

Röntgen- und Kernphysik: Für Mediziner und Biophysiker. Richard Glocker and Eckard Macherauch. Thieme, Stuttgart, Germany, ed. 2, 1965. 532 pp. Illus. DM. 69.

Screening Methods in Pharmacology. Robert A. Turner. Academic Press, New York, 1965. 348 pp. Illus. \$12.

Standard Methods of Clinical Chemistry. vol. 5. Samuel Meites, Ed. Academic Press, New York, 1965. 306 pp. Illus. \$8.50. Twenty-three papers.

Steady-State Application in Enzyme Kinetics. Charles Walter. Ronald, New York, 1965. 269 pp. Illus. \$12.

A Stereotaxic Atlas of the Chimpanzee Brain (*Pan Satyrus*). M. R. DeLucchi, B. J. Dennis, and W. R. Adey. Univ. of California Press, Berkeley, 1965. Unpagged. Illus. Plates. \$15.

Studies in the Pathology of Radiation Disease. N. A. Krayevskii. Translated from the Russian edition (Moscow, 1957) by A. Lieberman. Hermann Lisco and Malcolm Walker, Translation Eds. Pergamon, London; Macmillan, New York, 1965. 235 pp. Illus. \$15.

Textbook of Modern Biology. Alvin Nason. Wiley, New York, 1965. 810 pp. Illus. \$8.95.

Transplantation of Tissues and Organs (*British Medical Bull.* 21, No. 2). L. Brent, Ed. Medical Department, British Council, London, 1965. 86 pp. Illus. Paper, \$5. Fifteen papers.

The Treatment of Cancer: With Special Reference to Radiotherapy and Chemotherapy. J. S. Mitchell, Ed. Cambridge Univ. Press, New York, 1965. 329 pp. Illus. \$18.50. Twenty-three lectures given in a course organized by the School of Clinical Research and Postgraduate Medical Teaching, University of Cambridge.