

it covers a wide variety of topics, ranging from photophysics and light sources to photodynamic action and radiation chemistry. Most of these topics are treated rather briefly, and the main emphasis of the book is on the interpretation of the survival or mutation rate of irradiated organisms in terms of the damage and subsequent repair of their DNA. Enzymatic repair systems specific for DNA are a subject of active research in modern biology, and they are treated here in considerable detail. The photochemistry of proteins and that of nucleic acids are each discussed in separate chapters. Certain themes recur throughout the book, such as the use of photons as probes for studying biochemical mechanisms and the influence of environment on photochemical sensitivity. Whenever possible the authors point out potential new areas of research.

Although there are numerous review articles on photobiology, the number of books available on the subject is small, and most of these are written with the research worker in mind. Hence there is a need for a book such as this one written especially for use in the classroom. There are several problems which may arise upon use of this book as a text, however. One of these is that the presentation of many of the photobiological data is not simplified enough for the student who is unfamiliar with the jargon of molecular biology. In many cases the language is too technical and the discussion too concise, in this reviewer's opinion, to allow the average student to grasp the main point of an argument without constant rereading. (The authors, sensing that there might be a problem with terminology in a book that attempts to bridge biology and physics, have included a glossary.) Another weakness is the absence of reference citations for experimental results that are mentioned or discussed. Although the authors make a point in the preface of their attempt to minimize the use of references, they have in fact quoted the results of a large number of workers. The fact that the reader has no way of knowing where or when these results were published greatly diminishes the value of the book not only for the active worker in the field but also for the student or instructor who wishes to read the original papers for additional information. A short list of general references (mostly books and review articles) is included at the end of each chapter; but aside from the figure

acknowledgments, there are no other references.

This book, because of the wide range of topics covered, is recommended for use as a text provided the instructor has a sufficient background in molecular photobiology to organize and simplify some of the more subtle and complex aspects of the topics discussed. The instructor without this background will probably find that it does not completely suit his purpose and that he will have to refer his students to other sources for supplementary reading.

R. O. RAHN

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Renaissance Physics

Mechanics in Sixteenth-Century Italy. Selections from Tartaglia, Benedetti, Guido Ubaldo, and Galileo. Translated and annotated by STILLMAN DRAKE and I. E. DRABKIN. University of Wisconsin Press, Madison, 1969. xii + 432 pp., illus. \$12.50. University of Wisconsin Publications in Medieval Science.

The rise of modern physics is closely connected with the story of mechanics in Italy during the 16th century. Notions about the primacy of Parisian theologians and Leonardo da Vinci have largely preempted the center of the stage. Only a careful examination of the relevant scientific texts can open the way to the truth about what really happened, however.

In 1960 the team of Drake and Drabkin gave us such an analysis of some of Galileo's writings *On Motion and on Mechanics*. In the present work they make available a dialogue on motion left unfinished by Galileo as well as some related memoranda by him. This material was written in Latin and is translated into English by Drabkin, who does the same for the three excerpts from Giovanni Battista Benedetti and the preface of Guido Ubaldo del Monte's *Mechanics*. From the Italian version of Guido Ubaldo's Latin *Mechanics* Drake selects the most significant sections for translation into English. He also presents the key passages in Niccolò Tartaglia's *New Science* and *Various Questions and Inventions*.

Drake's illuminating introduction sees Italian 16th-century mechanics developed by two separate regional groups working along different lines. The northern group, connected with Venice and

Milan, included Tartaglia and Benedetti, among others. They were interested chiefly in the practical applications of the results of their investigations, and indulged in original but unsystematic speculation. The group linked to Urbino in central Italy, on the other hand, emphasized the necessity of mathematical rigor in the treatment of theoretical mechanical problems, the outstanding example being Guido Ubaldo. Toward the end of the century these two divergent trends were brought together by Galileo, whose mechanical aptitude and mathematical insight successfully synthesized the piecemeal achievements of his predecessors.

Drake makes a meticulous effort to keep the record straight with regard to the history of mechanics, but he is apparently willing to settle for a less exacting standard in other areas. Thus, the historian mentioned on page 251 is really Dio Cassius, not Dionysus, who was merely a god and flourished far longer than the year 180 assigned to him on page 423. Similarly, Numerius Magius of Cremona was the chief engineer of the general Pompey, not of the town Pompeii before it was buried during an eruption of Mount Vesuvius.

I. E. Drabkin died while this book was in press. His widow, Miriam Drabkin, who is a scholar in her own right, provides the extensive and useful bibliography.

EDWARD ROSEN

*History of Science Department,
City College, New York*

Books Received

About Epilepsy. Donald Scott. International Universities Press, New York, 1969. viii + 184 pp., illus. \$5.

Administration Reform. Gerald E. Caiden. Aldine, Chicago, 1969. xvi + 240 pp. \$6.50.

Die Alticinae des indischen Subkontinentes (Coleoptera-Chrysomelidae). Gerhard Scherer. Entomology Department, Bernice P. Bishop Museum, Honolulu, 1969. 252 pp., illus. Cloth, \$7; paper, \$6. Pacific Insects Monograph 22.

American Architecture and Urbanism. Vincent Scully. Praeger, New York, 1969. 280 pp., illus. \$18.50.

Annual Reports in Medicinal Chemistry, 1968. Cornelius K. Cain, Ed. Academic Press, New York, 1969. x + 358 pp., illus. Paper, \$8.75.

Automatic Data Processing. System/360 Edition. Frederick P. Brooks, Jr., and Kenneth E. Iverson. Wiley, New York, 1969. xxx + 466 pp., illus. \$14.50.

(Continued on page 222)

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11-15. **American Industrial Hygiene Assoc.**, Detroit, Mich. (G. D. Clayton, AIHA, 25711 Southfield Rd., Southfield, Mich. 48075)

11-15. **American Psychiatric Assoc.**, San Francisco, Calif. (B. W. Hogan, APA, 1700 18th St., NW, Washington, D.C. 20009)

12-14. **Metal Matrix Composites Conf.**, San Francisco, Calif. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

14-15. **Materials Selection Symp.**, Cleveland, Ohio. (W. M. Mueller, American Soc. for Metals, Metals Park, Ohio 44073)

14-15. **Southern Textile Research Conf.**, 10th annual, Hilton Head Island, S.C. (D. W. Snyder, Crompton Shenandoah Co., Drawer 907, Waynesboro, Va. 22980)

14-16. **Cardiovascular Diseases**, 6th annual symp., Hartford, Conn. (R. M. Jere-saty, Section of Cardiopulmonary Medicine, St. Francis Hospital, Hartford)

14-16. **American Inst. of Chemists**, Pittsburgh, Pa. (P. B. Slawter, 79 Madison Ave., New York 10016)

15-19. **International Assoc. of Professional Numismatists**, 19th general assembly, Scheveningen, The Hague, Netherlands. (A. Cronheim, Director, Holland Organizing Centre, 16 Lange Voorhout, The Hague)

17-30. **International Electrotechnical Commission**, Washington, D.C. (D. Hogan, U.S.A. Standards Inst., 10 E. 40 St., New York 10016)

18-20. **National Aerospace Electronics Conf.**, Dayton, Ohio. (Inst. of Electrical and Electronics Engineers, Dayton Office, 134 E. Monument St., Dayton 45402)

18-20. **Neonatal Enteric Infections** Caused by *Escherichia coli*, Conf., New York, N.Y. (L. R. Neville, New York Acad. of Sciences, 2 E. 63 St., New York 10021)

18-20. **Instrument Soc. of America. Power Instrumentation Symp.**, 13th, Kansas City, Mo. (R. A. Russell, Box 8405, Kansas City 64114)

18-20. **Steels for Dynamic Loading**, Cleveland, Ohio. (W. M. Mueller, American Soc. for Metals, Metals Park, Ohio)

18-22. **Air Force Materials Symp.** '70, Miami Beach, Fla. (J. Shipp, Executive Director, AFMS '70, P.O. Box 38, Dayton, Ohio 45420)

18-22. **Medical Library Assoc.**, New Orleans, La. (H. B. Schmidt, Executive Secretary, MLA, 919 N. Michigan Ave., Chicago, Ill. 60611)

19-20. **International Conf. on Magnet Technology**, Hamburg, Germany. (W. Jentschke, German Hamburg Electron Synchrotron, Notkeskieg 1, D-2, Hamburg 52)

19-22. **Society for Experimental Stress Analysis**, Huntsville, Ala. (B. E. Rossi, 21 Bridge Sq., Westport, Conn. 06880)

20-22. **Conference on Fracture Control: Theory and Application**, Chicago, Ill. (A. M. Mueller, American Soc. for Metals, Metals Park, Ohio 44073)

BOOKS RECEIVED

(Continued from page 169)

Aversion Therapy and Behaviour Disorders: An Analysis. S. Rachman and J. Teasdale. University of Miami Press, Coral Gables, Fla., 1969. xiv + 186 pp., illus. \$6.95.

Basic Drawing for Biology Students. Emil G. Bethke. Thomas, Springfield, Ill., 1969. xii + 88 pp., illus. \$7. American Lecture Series, No. 746.

Bentley and Driver's Textbook of Pharmaceutical Chemistry. Revised by L. M. Atherden. Oxford University Press, New York, ed. 8, 1969. xii + 916 pp., illus. Paper, \$14.

Biochemistry of Cell Division. A workshop, New York, April 1968. Renato Baserga, Ed. Thomas, Springfield, Ill., 1969. xii + 216 pp., illus. \$15.50.

The Biological Aspects of Water Pollution. Charles G. Wilber. Thomas, Springfield, Ill., 1969. x + 298 pp., illus. \$23.75.

Bird Vocalizations. Their Relations to Current Problems in Biology and Psychology. Essays presented to W. H. Thorpe. R. A. Hinde, Ed. Cambridge University Press, New York, 1969. xvi + 400 pp., illus. \$13.50.

The Book of Spices. Frederic Rosengarten, Jr. Livingston, Wynnewood, Pa., 1969 (distributor, Macrae Smith, Philadelphia). xiv + 490 pp., illus. \$20.

Computerized Library Catalogs: Their Growth, Cost, and Utility. J. L. Dolby, V. J. Forsyth, and H. L. Resnikoff. M.I.T. Press, Cambridge, Mass., 1969. x + 166 pp., illus. \$10.

Concepts and Development of Quantum Physics. John C. Slater. Dover, New York, 1969. xiv + 324 pp., illus. Paper, \$3. Reprint of the 1955 edition.

A Contribution to the Systematics of North American Species of Synhalonia (Hymenoptera, Apoidea). P. H. Timberlake. University of California Press, Berkeley, 1969. vi + 76 pp., illus. Paper, \$3. University of California Publications in Entomology, vol. 57.

The Crisis of Industrial Society. Norman Birnbaum. Oxford University Press, New York, 1969. xii + 188 pp. Cloth, \$4.75; paper, \$1.75.

Current Topics in Bioenergetics. Vol. 3. D. Rao Sanadi, Ed. Academic Press, New York, 1969. xiv + 466 pp., illus. \$21.

Darwin and the Beagle. Alan Moorehead. Harper and Row, New York, 1969. 280 pp., illus. \$15.

Dispersion Relation Dynamics. A Phenomenological Introduction to S-Matrix Theory. Hugh Burkhardt. North-Holland, Amsterdam; Interscience (Wiley), New York, 1969. viii + 292 pp., illus. \$18.50.

Elementary Numerical Analysis. Charles B. Tompkins and Walter L. Wilson, Jr. Prentice-Hall, Englewood Cliffs, N.J., 1969. xviii + 398 pp., illus. \$10.50. Prentice-Hall Series in Applied Mathematics.

Elements of Advanced Quantum Theory. J. M. Ziman. Cambridge University Press, New York, 1969. xiv + 274 pp., illus. \$9.50.

Enzymes of the Arterial Wall. John Esben Kirk. Academic Press, New York, 1969. xiv + 498 pp., illus. \$21.50.

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of Feminism in America. William L. O'Neill. Quadrangle, Chicago, 1969. xiv + 370 pp. \$7.95.

Experience in Hepatic Transplantation. Thomas E. Starzl, with the assistance of Charles W. Putnam. Saunders, Philadelphia, 1969. xxii + 554 pp., illus. \$37.50.

Foetal Autonomy. A Ciba Foundation Symposium, London, December 1968. G. E. W. Wolstenholme and Maeve O'Connor, Eds. Churchill, London, 1969. x + 326 pp., illus. 70s.

Fundamental Techniques in Virology. Karl Habel and Norman P. Salzman, Eds. Academic Press, New York, 1969. xxii + 530 pp., illus. \$17.50.

Giambattista Vico. An International Symposium. Giorgio Tagliacozzo, Hayden V. White, Isaiah Berlin, Max H. Fisch, and Elio Gianturco, Eds. Johns Hopkins Press, Baltimore, 1969. xxvi + 646 pp. \$12.

The Grand Detour Phase. Warren W. Caldwell and Richard E. Jensen. River Basin Surveys, Smithsonian Institution, Lincoln, Neb., 1969. iv + 140 pp., illus. Paper. Publications in Salvage Archeology, No. 13.

The Grand Titration. Science and Society in East and West. Joseph Needham. Allen and Unwin, London, 1969. 352 pp. + plates. 63s.

Human Anatomy and Physiology. Barry G. King and Mary Jane Showers. Illustrated by Lucille Cassell Innes. Saunders, Philadelphia, ed. 6, 1969. xiv + 438 pp. + plates. \$8.75.

Human Genetics. Victor A. McKusick. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1969. xviii + 222 pp., illus. Cloth, \$5.95; paper, \$3.95. Prentice-Hall Foundations of Modern Genetics Series.

Human Motivation. M. D. Vernon. Cambridge University Press, New York, 1969. viii + 192 pp. Cloth, \$7.50; paper, \$1.95.

Installing and Managing a Computer. Brian Rothery. Brandon/Systems, New York, 1969. x + 158 pp., illus. \$9.

Integrated Product Testing and Evaluation. A Systems Approach to Improve Reliability and Quality. Harold L. Gilmore and Herbert C. Schwartz. Wiley-Interscience, New York, 1969. xvi + 352 pp., illus. \$14.95.

International Review of Tropical Medicine. Vol. 3. David Richard Lincicome and A. W. Woodruff, Eds. Academic Press, New York, 1969. xxii + 266 pp., illus. \$14.50.

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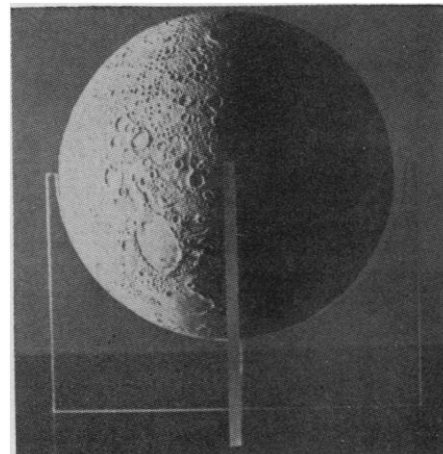
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Methods in Hormone Research. Vol. 2, Part A, Bioassay. Ralph I. Dorfman, Ed. Academic Press, New York, ed. 2, 1969. xiv + 610 pp., illus. \$27.50.

Microbial Biogeochemistry. James E.

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Zajic. Academic Press, New York, 1969. xiv + 346 pp., illus. \$15.

Molecular Photobiology. Inactivation and Recovery. Kendric C. Smith and Philip C. Hanawalt. Academic Press, New York, 1969. xviii + 230 pp., illus. \$10. Molecular Biology.

Nucleinsäuren. Biochemie und Funktionen. Eberhard Harbers. Georg Thieme Verlag, Stuttgart, 1969 (U.S. distributor, Intercontinental Medical Books, New York). xii + 216 pp., illus. Paper, DM 9. Einführungen zur Molekularbiologie, Band 1.

Number Words and Number Symbols. A Cultural History of Numbers. Karl Menninger. Translated from the revised German edition (Göttingen, 1958) by Paul Broneer. M.I.T. Press, Cambridge, Mass., 1969. xiv + 482 pp., illus. \$15.

Numerical Analysis—The Mathematics of Computing. Vol. 1. W. A. Watson, T. Philipson, and P. J. Oates. Elsevier, New York, 1969. xii + 228 pp., illus. Paper, \$4.50.

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Organization and Development of the Embryo. Ross Granville Harrison. Sally Wilens, Ed. Yale University Press, New Haven, Conn., 1969. xxvi + 294 pp., illus. \$15. Silliman Lectures, 42.

Photometric Methods of Analysis. A. B. Calder. Elsevier, New York, 1969. x + 312 pp., illus. \$16.75.

Politics of Social Research. An Inquiry into the Ethics and Responsibilities of Social Scientists. Ralph L. Beals. Aldine, Chicago, 1969. x + 230 pp. \$6.95.

A Programmed Introduction to Gas-Liquid Chromatography. J. B. Pattison. Heyden, London; Sadtler, Philadelphia, 1969. xvi + 304 pp., illus. Paper, \$4.95.

Progress in Comparative Endocrinology. Proceedings of the 5th International Symposium, Delhi, India, November 1967. M. R. N. Prasad, Ed. Academic Press, New York, 1969. xx + 604 pp., illus. \$29.50. General and Comparative Endocrinology, Suppl. 2, 1969.

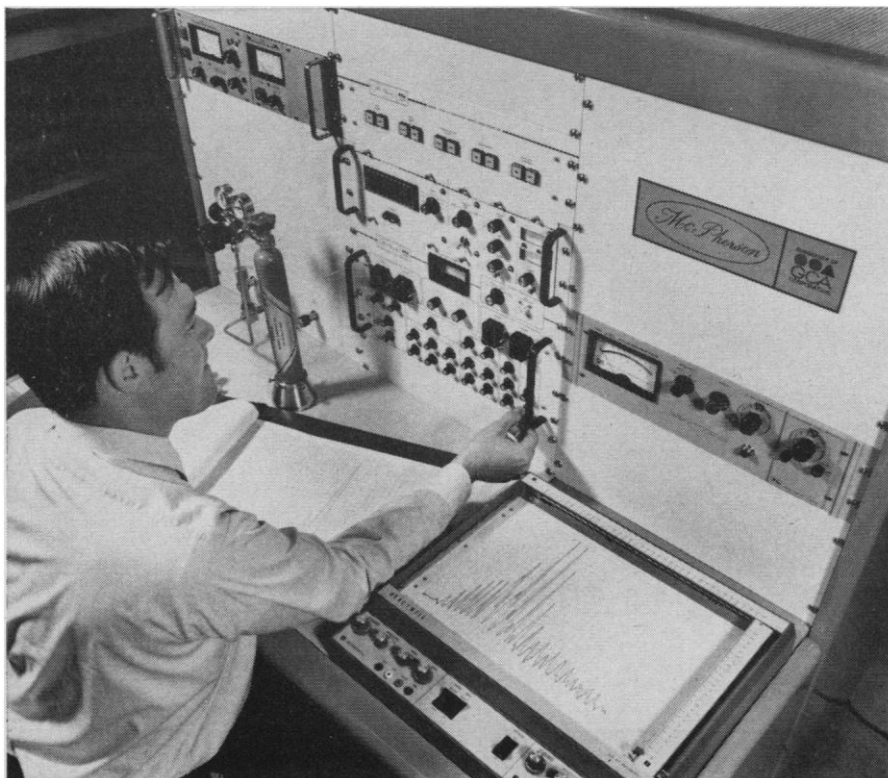
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Répartitions Horaires et Intensité des Précipitations 1967. Institut Royal Météorologique de Belgique, Uccle-Bruxelles, Belgium, 1968. ii + 270 pp. Paper.

Research in the Chemical Industry. The Environment, Objectives and Strategy. A. Baines, F. R. Bradbury, and C. W. Suck-

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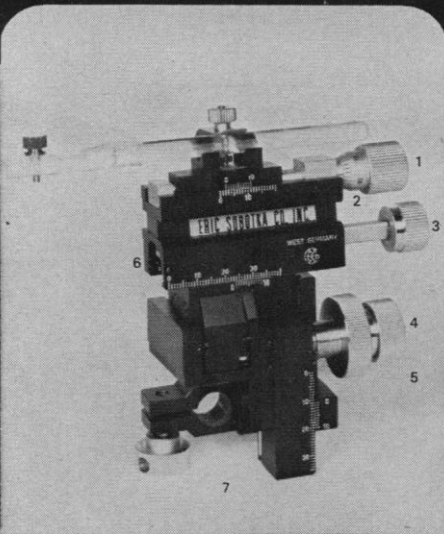
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A Review of the Water Snakes of the Genus *Natrix* in Mexico. Roger Conant. American Museum of Natural History, New York, 1969. 140 pp. + plates. Paper, \$8. Bulletin of the American Museum of Natural History, vol. 142, art. 1.

A Revision of the Genus *Aglaonema* (Araceae). Dan Henry Nicolson. Smithsonian Institution Press, Washington, D.C., 1969 (available from the Superintendent of Documents, Washington D.C.). iv + 72 pp., illus. Paper, \$1.25. Smithsonian Contributions to Botany, No. 1.

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The Sense of Time. An Electrophysiological Study of Its Mechanisms in Man. Josef Holubár. Translated from the Czech edition (Prague, 1961) by John S. Barlow. M.I.T. Press, Cambridge, Mass., 1969. xiv + 122 pp., illus. \$5.95.

Sources of Quantum Mechanics. B. L. Van Der Waerden, Ed. Dover, New York, 1968. xiv + 434 pp., illus. Paper, \$3. Classics of Science, vol. 5. Reprint of the 1967 edition.

The Spotted Sphinx. Joy Adamson. Harcourt, Brace and World, New York, 1969. vi + 314 pp., illus. \$7.95. A Helen and Kurt Wolff Book.

The Structure and Connections of the Inferior Colliculus. An Investigation of the Lower Auditory System. J. van Noort. Van Gorcum, Assen, Netherlands, 1969 (U.S. distributor, Davis, Philadelphia). viii + 116 pp., illus. \$13.50. Studies in Neuro-Anatomy, vol. 6.

The Structure and Function of Nervous Tissue. Vol. 2, Structure II and Physiology. Geoffrey H. Bourne, Ed. Academic Press, New York, 1969. xiv + 546 pp., illus. \$29.

Technological Forecasting and Corporate Strategy. Gordon Wills, David Ashton, and Bernard Taylor, Eds. Elsevier, New York, 1969. xviii + 274 pp., illus. \$13.50.

Theoretical Physics and Biology. Proceedings of the first international conference, Paris, June 1967. M. Marois, Ed. North-Holland, Amsterdam; Interscience (Wiley), New York, 1969. viii + 444 pp., illus. \$16.

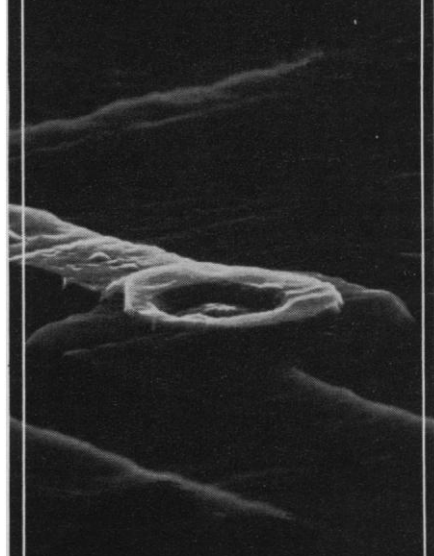
Theory and Interpretation of Fluorescence and Phosphorescence. Ralph S. Becker. Interscience (Wiley), New York, 1969. xvi + 288 pp., illus. \$14.95.

Transsexualism and Sex Reassignment. Richard Green and John Money, Eds. Johns Hopkins Press, Baltimore, 1969. xxiv + 512 pp., illus. \$15.

Type II Superconductivity. D. Saint-James, G. Sarma, and E. J. Thomas. Pergamon, New York, 1969. xii + 294 pp., illus. \$14. International Series of Monographs in Natural Philosophy, vol. 17.

Universal Natural History and Theory of the Heavens. Immanuel Kant. New introduction by Milton K. Munitz. University of Michigan Press, Ann Arbor, 1969. xxiv + 182 pp. Paper, \$2.45. Ann Arbor Paperbacks 158.

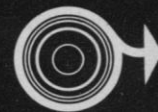
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