

K. M. Jack; Joseph Koelreuter, 1733–1806, and William Herschel, 1738–1823, both by R. C. Olby; Antoine Lavoisier, 1743–1794, by D. J. Knight; Henry Cavendish, 1731–1810, by D. C. Goodman; Alessandro Volta, 1745–1827, by C. G. Vosa; and James Watt, 1736–1819, by J. D. North. Although these subjects were chosen as “representative” of their age, the book is not an epitome of late-18th-century science. There is no effort to show the group to be representative, or indeed, to suggest what that might entail, and there is no indication of the reader to whom this uneven collection of essays is addressed. In short, the collection has no meaning beyond the fortuitous association of biographies which may have independent interest.

We turn, therefore, to consideration of the individual essays. Three of these must be welcomed as filling the gaps in accessible science-biography. The study of Lamarck is, however, disappointing in its failure to fit this French botanist and zoologist, notorious for his evolutionary speculations, squarely within the “romantic” metaphysical trends of the turn of the century. The Koelreuter biography is more successful, though its descriptive approach does not quite justify the selection of the German plant-hybridizer, neglected in his own day, as *representative* of 18th-century botany. The sketch of Volta is disappointing in the frame of an inadequate summary history of electricity.

The remaining essays have the advantage of continuing studies by historians. That on the French chemist Lavoisier is the most successful, for it admirably summarizes the recent work of Henry Guerlac. As recent work on Cavendish is primarily the rewriting of an unsatisfactory work nearly a century old, this essay on the English natural philosopher can only retail the current myths. The essay on Watts adds to plethora. It is marred by frequent minor errors but is graced with a concern for economics and with a detailed analysis of the inventor's favorite device, the “parallel-motion” linkage. Finally, the study of Herschel uses the recent investigations of Michael Hoskin but remains pedestrian and descriptive and fails to justify the choice of the British astronomical observer over some representative of the school of French mathematical astronomy.

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Books Received

Absentee Ownership and Business Enterprise in Recent Times: The Case of America. Thorstein Veblen. Beacon Press, Boston, 1967. 465 pp. Paper, \$2.95. Reprint, 1923 edition.

Academic Freedom and the Catholic University. Based on a symposium. Edward Manier and John W. Houck, Eds. Fides, Notre Dame, Ind., 1967. 237 pp. \$4.95. Eight papers.

Adhesion and Adhesives. vol. 2, *Applications.* R. Houwink and G. Salomon, Eds. Elsevier, New York, ed. 2, 1967. 604 pp. Illus. \$24. Twenty-three papers.

Agricultural Insurance: Principles and Organization and Application to Developing Countries. P. K. Ray. Pergamon, New York, 1967. 343 pp. Illus. \$15.50.

The Archaeology of the Palau Islands: An Intensive Survey. Douglas Osborne. Bishop Museum Press, Honolulu, 1966. 509 pp. Illus. Paper, \$14.

Air and Its Function in Life. Weldon N. Lewis. Vantage Press, New York, 1967. 64 pp. Illus. \$2.50.

Atlas of Human Anatomy. vol. 2, *Atlas of Visceral Anatomy: Digestive, Respiratory, and Urogenital Systems.* Johannes Sobotta. Revised by Frank H. J. Figge. Hafner, New York, ed. 8, 1965. Unpaged. \$15.

Atomic Structure and Chemical Bonding. Fritz Seel. Translated from the fourth German edition by N. N. Greenwood and H. P. Stadler. Methuen, London; Barnes and Noble, New York, 1967. 120 pp. Illus. Paper, \$1.50; cloth, \$2.75.

Basic Tables in Physics. John Robson. McGraw-Hill, New York, 1967. 364 pp. Illus. Paper, \$3.95. McGraw-Hill Basic Tables Series.

Between Knowing and Believing. Pierre Lecomte du Noüy. Translated from the French edition (Paris, 1964) by Mary Lecomte du Noüy. McKay, New York, 1967. 300 pp. Illus. \$6.50. Thirteen essays written between 1929 and 1945.

Calculus: An Intuitive and Physical Approach. pt. 1. Morris Kline. Wiley, New York, 1967. 588 pp. Illus. \$9.95.

Carte pédologique de la France à l'échelle du millionième. Jacques Dupuis. Institut National de la Recherche Agronomique, Versailles, 1967. Two sheets, 60 by 115 cm. 45 F.

Classroom Grouping for Teachability. Herbert A. Thelen. Wiley, New York, 1967. 288 pp. \$7.50.

The Colonizer and the Colonized. Albert Memmi. Beacon Press, Boston, 1967. 183 pp. Paper, \$1.95. Reprint, 1965 edition.

Color Photography in Practice. D. A. Spencer. Revised edition by L. Andrew Mannheim and Viscount Hanworth. Focal Press, New York, ed. 4, 1966. 410 pp. Illus. \$23.

The Comprehensive High School: A Second Report to Interested Citizens. James B. Conant. McGraw-Hill, New York, 1967. 103 pp. Illus. \$3.95.

The Contemporary University: U.S.A. Robert S. Morison, Ed. Beacon Press, Boston, 1967. 382 pp. Paper, \$2.45. Reprint, 1966 edition.

Continuing Numerical Data Projects: A Survey and Analysis. Miriam G. Buck, Ed. Natl. Acad. of Sciences–Natl. Research

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Controlling Pollution: The Economics of a Cleaner America. Marshall I. Goldman, Ed. Prentice-Hall, Englewood Cliffs, N.J., 1967. 191 pp. \$4.95. Seventeen papers.

The Culture of Vertebrate Embryos. D. A. T. New. Logos Press, London; Academic Press, New York, 1966. 257 pp. Illus. \$14.

The Cytology of the Protein Synthesis in an Animal Cell. B. V. Kedrovskii. Translated from the Russian. Gordon and Breach, New York, 1967. 474 pp. Illus. Paper, \$14.50; cloth, \$29.50. Life Sciences Series.

A Dictionary of the Flowering Plants and Ferns. J. C. Willis. Revised by H. K. Airy Shaw. Cambridge Univ. Press, New York, ed. 7, 1966. 1289 pp. \$18.50.

Directory of Selected Research Institutes in Eastern Europe. Prepared by Arthur D. Little, Inc., for the National Science Foundation. Columbia Univ. Press, New York, 1967. 457 pp. \$12.

Electricity and Magnetism. Bernhard Kurrelmeyer and Walter H. Mais. Van Nostrand, Princeton, N.J., 1967. 525 pp. Illus. \$12.75. University Physics Series.

Electricity One–Seven. *Electricity One, Producing Electricity* (110 pp., \$2.25); *Electricity Two, D-C Circuits* (136 pp., \$2.75); *Electricity Three, A-C Circuits* (157 pp., \$2.75); *Electricity Four, LCR Circuits* (168 pp., \$2.75); *Electricity Five, Test Equipment* (128 pp., \$2.75); *Electricity Six, Power Sources* (152 pp., \$2.75); *Electricity Seven, Electric Motors* (155 pp., \$2.75). Harry Mileaf, Ed. Hayden, New York, 1966. Illus. Paper, \$16.95 set; single cloth volume, \$12.76.

Electronics One–Seven. Harry Mileaf, Ed. Hayden, New York, 1967. Unpaged. Illus. \$14.96. Individual paper volumes, \$20.95 set.

Elektrochemische Methoden und Prinzipien in der Molekular-Biologie. Jenaer Symposium, May 1965. Hermann Berg, Ed. Akademie-Verlag, Berlin, 1966. 656 pp. Illus. Seventy-six papers in English or German.

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Encyclopedia of Hydraulics, Soil and Foundation Engineering. Compiled by Ernst Vollmer. Elsevier, New York, 1967. 406 pp. Illus. \$18.

ESP in Life and Lab: Tracing Hidden Channels. Louisa E. Rhine. Macmillan, New York, 1967. 287 pp. \$6.95.

Field Linguistics: A Guide to Linguistic Field Work. William J. Samarin. Holt, Rinehart and Winston, New York, 1967. 256 pp. Illus. \$6.95.

Flora of the Sea. C. L. Duddington. Crowell, New York, 1967. 207 pp. Illus. \$6.95.

Fluid Mechanics. Arthur G. Hansen. Wiley, New York, 1967. 547 pp. Illus. \$9.95. Series in Thermal and Transport Sciences.

Food Microbiology. W. C. Frazier. McGraw-Hill, New York, ed. 2, 1967. 551 pp. Illus. \$12.50.

For Your Information on Earth and in the Sky. Willy Ley. Doubleday, Garden City, N.Y., 1967. 259 pp. Illus. \$4.95.

The Geographer's Craft. T. W. Freeman. Manchester Univ. Press, Manchester, England; Barnes and Noble, New York, 1967. 216 pp. Illus. \$4.50.

Germanium. V. I. Davydov. Translated from the Russian by Adam Peiperl. Gordon and Breach, New York, 1967. 423 pp. Illus. \$18.

Glossary of Geographical Names: In Six Languages, English/French/Italian/Spanish/German and Dutch. Compiled by Gabriella Lana, Liliana Iasbez, and Lidia Meak. Elsevier, New York, 1967. 192 pp. \$10.

The Identification of Weed Seedlings of Farm and Garden. R. J. Chancellor. Blackwell, Oxford, England; Davis, Philadelphia, 1966. 96 pp. Illus. Paper, \$3.

Immunological Aspects of Viral Oncolysis. Jean Lindenmann and Paul A. Klein. Springer-Verlag, New York, 1967. 90 pp. Illus. \$4.50. Recent Results in Cancer Research, vol. 9.

Introduction to Magnetic Resonance: With Applications to Chemistry and Chemical Physics. Alan Carrington and Andrew D. McLachlan. Harper and Row, New York, 1967. 286 pp. Illus. \$10.95. Harper's Chemistry Series.

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Linear Vibration Theory: Generalized Properties and Numerical Methods. James B. Vernon. Wiley, New York, 1967. 381 pp. Illus. \$19.95.

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Manhattan Project: The Untold Story of the Making of the Atomic Bomb. Stephane Groueff. Little, Brown, Boston, 1967. 384 pp. Illus. \$6.95.

Mass Transfer with Chemical Reaction. Giovanni Astarita. Elsevier, New York, 1967. 202 pp. Illus. \$10.

Mathematical Modeling in Chemical Engineering. Roger G. E. Franks. Wiley, New York, 1967. 295 pp. Illus. \$10.95.

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Methods in the Quantum Theory of Magnetism. Sergei Vladimirovich Tyablikov. Translated from the Russian edition (Moscow, 1965) by Albin Tybulewicz. Plenum Press, New York, 1967. 370 pp. Illus. \$13.50.

Mineral Resources: Geology, Engineer-

ing, Economics, Politics, Law. Peter T. Flawn. Rand McNally, Chicago, 1966. 428 pp. Illus. \$9.

Morphogenesis and Microscopic Cytochemistry of Marine Pyrenomycete Ascomycetes. Paul W. Kirk, Jr. Cramer, Lehre, Germany, 1966. 155 pp. Plates. \$10.

Navaho Witchcraft. Clyde Kluckhohn. Beacon Press, Boston, 1967. 276 pp. Paper, \$1.95. Reprint, 1944 edition.

The Negro American. Talcott Parsons and Kenneth B. Clark, Eds. Beacon Press, Boston, 1967. 811 pp. Illus. Paper, \$3.95. Reprint, 1966 edition.

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A New Europe? Stephen R. Graubard, Ed. Beacon Press, Boston, 1967. 703 pp. Illus. Paper, \$3.45. Reprint, 1964 edition.

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The Opinionmakers. William L. Rivers. Beacon Press, Boston, 1967. 223 pp. Paper, \$1.95. Reprint, 1965 edition.

Organic Semiconductors. Felix Gutmann and Lawrence E. Lyons. Wiley, New York, 1967. 876 pp. Illus. \$27.95. Wiley Series on the Science and Technology of Materials.

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Photographic Processing Chemistry. L. F. A. Mason. Focal Press, New York, 1966. 321 pp. Illus. \$15.

Physical Acoustics: Principles and Methods. vol. 3, pt. A, *The Effect of Imperfections.* Warren P. Mason, Ed. Academic Press, New York, 1966. 534 pp. Illus. \$18.50. Eight papers.

The Physics of Solids: Ionic Crystals, Lattice Vibrations, and Imperfections. Frederick C. Brown. Benjamin, New York, 1967. 429 pp. Illus. \$12.75.

Plastics for Engineers: An Introductory Course. G. R. Palin. Pergamon, New York, 1967. 182 pp. Illus. Paper, \$5. Commonwealth and International Library.

The Population of Borneo. A study of the peoples of Sarawak, Sabah and Brunei. L. W. Jones. Oxford Univ. Press, New York, 1966. 221 pp. Illus. \$6.75.

Practical Photomicrography. J. Bergner, E. Gelbke and W. Mehliß. Translated from the German edition by K. S. Ankersmit. Focal Press, New York, 1966. 228 pp. Illus. \$17.

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Race and Reality: A Search for Solutions. Carleton Putnam. Public Affairs Press, Washington, D.C., 1967. 200 pp. \$4.50.

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Sponsored by the Royal Society, the Air Force Office of Scientific Research, the National Aeronautics and Space Administration, and the Office of Naval Research. C. L. Brundin, Ed. Academic Press, New York, 1967. vol. 1, 899 pp.; vol. 2, 872 pp. Illus. \$18.50 each volume. There are 103 papers.

Reagent Chemicals and Standards. Joseph Rosin. Van Nostrand, Princeton, N.J., ed. 5, 1967. 651 pp. Illus. \$16.50.

Recent Developments in Particle Physics. Proceedings of the First Pacific International Summer School of Physics, August 1965. Michael J. Moravcsik, Ed. Gordon and Breach, New York, 1966. 271 pp. Illus. Paper, \$15. Six papers.

Regulation and Control in Living Systems. H. Kalmus, Ed. Wiley, New York, 1967. 476 pp. Illus. \$13.75. Sixteen papers.

Regulation of Nucleic Acid and Protein Biosynthesis. Proceedings of an international symposium (Lunteren, Netherlands), June 1966. V. V. Koningsberger and L. Bosch, Eds. Elsevier, New York, 1967. 412 pp. Illus. \$23.50. B.B.A. Library Series, vol. 10. Thirty-three pages.

The Rod and Serpent of Asklepios: Symbol of Medicine. J. Schouten. Elsevier, New York, 1967. 272 pp. Illus. \$10.

The Science of Salt. Robert Froman. McKay, New York, 1967. 96 pp. Illus. \$3.25.

Science, Technology, and American Foreign Policy. Eugene B. Skolnikoff. M.I.T. Press, Cambridge, Mass., 1967. 346 pp. \$8.95.

Second Tihany Symposium on Radiation Chemistry, Proceedings, May 1966. János Dobó and Péter Hedvig, Eds. Akadémiai Kiadó, Budapest, 1967. 829 pp. Illus. \$28. Ninety-five papers.

Shift Register Sequences. Solomon W. Golomb. Holden-Day, San Francisco, 1967. 238 pp. Illus. \$7.95.

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Social Communication among Primates. Based on an international symposium (Montreal, Canada), December 1964. Stuart A. Altmann, Ed. Univ of Chicago Press, Chicago, 1967. 406 pp. Illus. \$15. Seventeen papers.

The Social Nature of Psychological Research: The Psychological Experiment as a Social Interaction. Neil Friedman. Basic Books, New York, 1967. 220 pp. Illus. \$6.95.

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(Continued from page 818)

Some Theory of Sampling. William Edwards Deming. Dover, New York, 1966. 620 pp. Illus. Paper, \$3.50. Reprint, 1950 edition.

Sources of Quantum Mechanics. B. L. van der Waerden, Ed. North-Holland, Amsterdam, 1967. 442 pp. Illus. \$14. There are 17 papers, written between 1916 and 1926.

Space Research VII. vols. 1 and 2. Proceedings of the Seventh International Space Science Symposium (Vienna), May 1966. Sponsored by Committee on Space Research, International Union of Geodesy and Geophysics, and International Scientific Radio Union. R. L. Smith-Rose, S. A. Bowhill, and J. W. King, Eds. North-Holland, Amsterdam, 1967. vol. 1, 693 pp.; vol. 2, 820 pp. Illus. \$50 set. There are 204 papers; most of the papers are in English, others are in French.

Spectroscopic Calculations for a Multi-electron Ion. H. H. Theissing and P. J. Caplan. Interscience (Wiley), New York, 1966. 217 pp. Illus. \$10.

Standard Industrial Hydraulics Questions and Answers. Stephen Michael Elonka and Orville Howard Johnson. McGraw-Hill, New York, 1967. 318 pp. Illus. \$10.95.

The Stars: A New Way to See Them. H. A. Rey. Houghton Mifflin, Boston, revised edition, 1967. 160 pp. Illus. \$6.

Statistical Mechanical Theories of Transport Processes. Robert M. Mazo. Pergamon, New York, 1967. 180 pp. Illus. \$9.50. The International Encyclopedia of Physical Chemistry and Chemical Physics.

Statistics for the Behavioral Sciences. Woodrow W. Wyatt and Charles M. Bridges, Jr. Heath, Boston, 1967. 407 pp. Illus. \$8.95.

Statistics for Biology. O. N. Bishop. Houghton Mifflin, Boston, 1967. 192 pp. Illus. Paper, \$2.75. The Principles of Modern Biology Series.

Sterilisation, Desinfektion, Konservierung, Chemotherapie: Verfahren, Wirkstoffe, Prüfungsmethoden. K. H. Wallhäusser and H. Schmidt. Thieme, Stuttgart, Germany, 1967. 586 pp. Illus. DM 48.

A Study of the Cat. Warren F. Walker, Jr. Saunders, Philadelphia, 1967. 189 pp. Illus. Paper, \$3.50.

Surface Contamination. Proceedings of a symposium (Gatlinburg, Tenn.), June 1964. B. R. Fish, Ed. Pergamon, New York, 1967. 425 pp. Illus. \$21.50. Fifty-four papers.

Symmetries and Reflections: Scientific Essays. Eugene P. Wigner, Indiana Univ. Press, Bloomington, 1967. 288 pp. Illus. \$7.50.

Systemic Pathology. vols. 1 and 2. G. Payling Wright and W. St. Clair Symmers, Eds. Elsevier, New York, 1967. vol. 1, 1135 pp.; vol. 2, 761 pp. Illus. \$57.50 set.

Systems Analysis in Ecology. Kenneth E. F. Watt, Ed. Academic Press, New York, 1966. 290 pp. Illus. \$11.50. Ten papers.

Technical Drawing. Frederick E. Gie-

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secke, Alva Mitchell, Henry Cecil Spencer, and Ivan Leroy Hill. Macmillan, New York, ed. 5, 1967. 892 pp. Illus. \$9.95.

The Technocrats: Prophets of Automation. Henry Elsner, Jr. Syracuse Univ. Press, New York, 1967. 262 pp. Illus. \$7.

The Theory of Neutron Slowing Down in Nuclear Reactors. Joel H. Ferziger and P. F. Zweifel. M.I.T. Press, Cambridge, Mass., 1966. 317 pp. Illus. \$13.50.

The Theory of Spinors. Elie Cartan, Translated from the French edition (Paris, 1938). M.I.T. Press, Cambridge, Mass., 1966. 167 pp. \$7.

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Toward Effective Counseling and Psychotherapy: Training and Practice. Charles B. Truax and Robert R. Carkhuff. Aldine, Chicago, 1967. 432 pp. Illus. \$10.75. Modern Applications in Psychology.

The Toxicology of Radioactive Substances. vol. 3, *Iron-59*. A. A. Letavet and E. B. Kurlyandskaya, Eds. Translated from the Russian edition (Moscow, 1962) by R. E. Travers. Pergamon, New York, 1967. 196 pp. Illus. \$9.

Trachoma: Prevention and Treatment. Giambattista Bietti and Georges H. Werner. Thomas, Springfield, Ill., 1967. 243 pp. Illus. \$11.50. American Lecture Series.

Transitions and Relaxations in Polymers.

A symposium (Atlantic City, N.J.), September 1965. Sponsored by American Chemical Society. Raymond F. Boyer, Ed. Interscience (Wiley), New York, 1967. 348 pp. Illus. Paper, \$13. *Journal of Polymer Science*, No. 14, pt. C, Polymer Symposia. Twenty-three papers.

Trap-Nesting Wasps and Bees: Life Histories, Nests, and Associates. Karl V. Krombein. Smithsonian Press, Washington, D.C., 1967. 576 pp. Illus. \$12.50.

The Uptake and Storage of Noradrenaline in Sympathetic Nerves. Leslie L. Iversen. Cambridge Univ. Press, New York, 1967. 267 pp. Illus. \$11.

Variety of Men. C. P. Snow. Scribner, New York, 1967. 282 pp. \$5.95. Personal impressions of nine men.

Vector Measures. N. Dinculeanu. Deutscher Verlag der Wissenschaften, Berlin; Pergamon, New York, 1967. 445 pp. \$17.50.

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ert S. Harris, Ira G. Wool, and John A. Loraine, Eds. Academic Press, New York, 1966. 764 pp. Illus. \$16. Twenty-nine papers.

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Wheels. Wilfred Owen, Ezra Bowen, and the Editors of Life, Time Inc., New York, 1967. 200 pp. Illus.: \$3.95 Life Science Library.

White Grubs and Their Allies: A Study of North American Scarabaeoid Larvae. Paul O. Richter. Oregon State Univ. Press, Corvallis, 1966. 219 pp. Illus. \$10. Studies in Entomology, No. 4.

A World History. William H. McNeill, Oxford Univ. Press, New York, 1967. 492 pp. Illus. \$9.75.

World Regional Geography. Oliver H. Heintzelman and Richard M. Highsmith, Jr. Prentice-Hall, Englewood Cliffs, N.J., ed. 3, 1967. 468 pp. Illus. \$8.95.

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X-Ray Methods in the Study of Defects in Single Crystals. J. Auleytnner. Translated from the Polish edition (Warsaw, 1964) by Janusz Leciejewicz. PWN—Polish Scientific Publishers, Warsaw; Pergamon, New York, 1967. 274 pp. Illus. \$10.

The Zambesian Past: Studies in Central African History. Eric Stokes and Richard Brown, Eds. Humanities Press, New York, 1966. 463 pp. Illus. \$8. There are 16 papers.

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