

0.1–0.5*M*, the range of greatest interest to analytical chemists). He elaborates his conditional constant approach and applies it to the important topic of masking analytical reactions. There is a thorough treatment of complexometric titrations, with emphasis on end-point detection and estimation of the titration error (for which a handy diagram is provided) and a chapter in which acid-base reactions are treated as a special case of complexation. This novel approach leads to some interesting examples of the use of complexation side-reactions to improve acid-base titrations. Finally, there are chapters on complexation in ion exchange, metal extraction, and electrochemical and photometric analysis, and to all of them Ringbom brings fresh insight.

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## Note

### Classics of Science

**Classics in the Theory of Chemical Combinations** (Dover, New York, 1963. 205 pp. Paper, \$1.85), edited by O. Theodor Benfey, is the first volume in a new series, "Classics of Science." Gerold Holton, editor of the series, writes in the preface that each volume will be "a collection of fundamental essays and other basic original articles in a certain field of science, presented in the sequence of its development, together with an introduction, commentary, and clarifying notes by the scholar responsible for the selection of the papers." This volume contains nine papers: "Researches respecting the radical of benzoic acid" (published in 1832) by Friedrich Wöhler and Justus Liebig; "Carbon, metallic and hydrogen, oxygen, and chlorine substitutions; Theory of chlorine substitutions; Nitrogen substitutions" (1854), Auguste Laurent; "On the constitution of salts" (1851), Alexander W. Williamson; "On a new series of organic bodies containing metals" (1852), Edward Frankland; "The constitution and metamorphoses of chemical compounds and the chemical nature of carbon" (1858), August Kekulé; "On a new chemical theory (2 papers, 1858), Archibald Scott Couper; "A suggestion looking to the extension into space of the structural formulas at

present used in chemistry. And a note upon the relation between the optical activity and the chemical constitution of organic compounds" (1874), Jacobus Henricus van't Hoff; and "On the relations which exist between the atomic formulas of organic compounds and the rotatory power of their solutions" (1874), Joseph Achille le Bel.

### New Books

#### General

**Alcohol and Civilization.** Salvatore Pablo Lucia, Ed. McGraw-Hill, New York, 1963. 432 pp. Paper, \$3.95; cloth, \$7.50.

**America Encounters Japan.** From Perry to MacArthur. William L. Neumann. Johns Hopkins Press, Baltimore, 1963. 365 pp. \$6.50.

**The Atomic Age.** Scientists in national and world affairs. Morton Grodzins and Eugene Rabinowitch, Eds. Basic Books, New York, 1963. 634 pp. \$10.

**Birds of Hampshire and the Isle of Wight.** Edwin Cohen. Oliver and Boyd, Edinburgh, Scotland, 1963. 290 pp. Illus. 30s.

**The Care of the Earth.** A history of husbandry. Russell Lord. New American Library, New York, 1963. 384 pp. Illus. Paper, 95¢.

**Cities and Space.** The future use of urban land. Lowdon Wingo, Jr. Published for Resources for the Future by Johns Hopkins Press, Baltimore, 1963. 267 pp. Illus. \$5.50.

**Darwiniana.** Essays and reviews pertaining to Darwinism. Asa Gray. A. Hunter Dupree, Ed. Harvard Univ. Press, Cambridge, Mass., 1963. 351 pp. \$5.

**Dialogues Concerning Two New Sciences.** Galileo Galilei. Translated from the Italian and Latin (Elzevir edition, 1638) by Henry Crew and Alfonso de Salvio. McGraw-Hill, New York (reprint of 1914 edition), 1963. 313 pp. Illus. Paper, \$2.95.

**Educators Guide to Free Guidance Materials.** Compiled and edited by Mary Horkheimer Saterstrom and Joe A. Steph. Educators Progress Service, Randolph, Wis., ed. 2, 1963. 241 pp. Paper, \$6.50.

**Fallacies in Mathematics.** E. A. Maxwell. Cambridge Univ. Press, New York, 1963. 95 pp. Illus. Paper, 95¢.

**The Family and Human Adaptations.** Three lectures. Theodore Lidz. International Univ. Press, New York, 1963. 126 pp. \$3.

**Gyroscopes.** What they are and how they work. James C. Sparks, Jr. Dutton, New York, 1963. 91 pp. Illus. \$3.50 (juvenile book).

**A History of Electricity.** Edward Tattall Canby. Hawthorn, New York, 1963. 111 pp. Illus. \$5.95. A popularization.

**The History of Sciences in India.** Proceedings of a symposium (Calcutta), August 1961. P. Maheshwari, Ed. National Inst. of Sciences of India, New Delhi, 1963. 351 pp. Illus. Paper, R.13.75.

**Human Possibilities.** A dialectic in contemporary thinking. W. Paul Kiley. Philosophical Library, New York, 1963. 104 pp. \$3.

**Jahrbuch: Der Deutschen Akademie der Wissenschaften zu Berlin, 1961** (970 pp. DM. 38.50); **Jahrbuch, 1962** (674 pp. DM. 37). Akademie Verlag, Berlin.

**Land and Life.** A selection from the writings of Carl Ortwin Sauer. John Leighly, Ed. Univ. of California Press, Berkeley, 1963. 441 pp. Illus. \$8.95.

**The Languages of Science.** A survey of techniques of communication. John Wolfenden. Basic Books, New York, 1963. 191 pp. Illus. \$4.95.

**The Long White Line.** The story of Abbott Laboratories. Herman Kogan. Random House, New York, 1963. 320 pp. Illus. \$5.95.

**Man and Science.** W. Heitler. Translated from the Swiss edition (1962) by Robert Schlapp. Basic Books, New York, 1963. 108 pp. Illus. \$4.50.

**Man and the Living World.** Karl von Frisch. Translated by Elsa B. Lowenstein. Harcourt, Brace, and World, New York, 1963 (© 1949 by Deutscher, Berlin). 320 pp. Illus. \$7.50.

**Man on His Nature.** The Gifford Lectures given at Edinburgh in 1937–1938. Charles Sherrington. Cambridge Univ. Press, New York, ed. 2 (© 1951), 1963. 308 pp. Illus. Paper, \$1.95.

**The Management of Ineffective Performance.** John B. Miner. McGraw-Hill, New York, 1963. 379 pp. \$7.95.

**Mansfield on the Condition of the Western Forts 1853–1854.** Robert W. Frazer, Ed. Univ. of Oklahoma Press, Norman, 1963. 286 pp. Illus. \$4.95.

**Marxism.** The unity of theory and practice. Alfred G. Meyer. Univ. of Michigan Press, Ann Arbor (© 1954), 1963. 191 pp. Paper, \$1.75.

**Matthew Fontaine Maury, Scientist of the Sea.** Frances Leigh Williams. Rutgers Univ. Press, New Brunswick, N.J., 1963. 742 pp. Illus. \$10.

**Gregor Mendel, and Heredity.** Robert N. Webb. Watts, New York, 1963. 120 pp. Illus. \$2.95 (juvenile book).

**Methods of Information Handling.** Charles P. Bourne. Wiley, New York, 1963. 255 pp. Illus. \$12.95.

**Middle East Oil Crises and Western Europe's Energy Supplies.** Harold Lubell. Johns Hopkins Press, Baltimore, Md., 1963. 253 pp. Illus. \$8.75.

**The Minds of Robots.** Sense data, memory images, and behavior in conscious automata. James T. Culbertson. Univ. of Illinois Press, Urbana, 1963. 480 pp. Illus. \$10.

**Minerals.** And how to study them. Edward Salisbury Dana. Revised by Cornelius S. Hurlbut, Jr. Wiley, New York (© 1949, ed. 3), 1963. 331 pp. Illus. Paper, \$1.45 (reprint).

**The Mushroom Hunter's Field Guide.** Revised and enlarged. Alexander H. Smith. Univ. of Michigan Press, Ann Arbor, ed. 2, 1963. 312 pp. Illus. \$6.95.

**Narcotics: Nature's Dangerous Gifts.** A revised edition of *Flight from Reality* (1949). Norman Taylor. Dell, New York, 1963. 224 pp. Illus. Paper, \$1.65.

**The Natural Philosopher.** vol. 1. Daniel