

Trade in America, 1610–1820

Indian Culture and European Trade Goods.

GEORGE IRVING QUIMBY. University of Wisconsin Press, Madison, 1966. 231 pp., illus. \$5.

The present volume is a summary of the scanty archeological work done in the western Great Lakes region in Indian sites of periods labeled Early Historic (A.D. 1610–1670), Middle Historic (A.D. 1670–1760), and Late Historic (A.D. 1760–1820). Niggardly with maps, generous with bibliography, and perhaps too much a thing of shreds and patches of previously published essays, it is, as the author says, “little more than a beginning.”

The book is not a history of people. Rather, it is chiefly a detailed discussion of the kinds of material goods (such as farming tools, household utensils, ornaments, and firearms) traded by Frenchmen, Englishmen, and Americans to Indians for furs in the eastern half of the United States and Canada. The traded object, rather than the trader, is the focus of attention. Although problems involving cross-cultural diffusion, acceptance, alteration, or rejection of material objects are raised under the heading of “categories of change” (pp. 9–11), they are abandoned in the rest of the book.

Historical archeology, which has only recently come into vogue among excavators of North America's past, holds much promise for anthropology, for there is no better place to test the means of arriving at the inferences on which the interpretation of prehistoric remains always rests than in historical ruins, concerning which there are often written as well as material data. Much of that promise is lost when we cast our reporting in the prehistoric mold. Unfortunately, that appears to have happened here.

BERNARD FONTANA

Arizona State Museum,
University of Arizona, Tucson

Berzelius

Jac. Berzelius. His Life and Work. J. ERIK JORPES. Almqvist and Wiksell, Stockholm, 1966. 156 pp., illus. \$8.

The Royal Swedish Academy of Sciences published H. G. Söderbaum's extensive biography of Jöns Jakob Berzelius in 1929–1931, and Arne Holmberg's seven-volume *Bibliografi over J. J. Berzelius* between 1933 and 1953.



Jöns Jakob Berzelius, 1779–1848.

From these sources J. Erik Jorpes, emeritus professor of physiological chemistry, has skillfully selected the material for the present short biography, which has found a congenial translator in Barbara Steele.

Berzelius published his first book, a treatise on galvanism, in 1802, and in 1803 he discovered compounds of a new metal which he named cerium. He continued the threefold activity of writing, discovering, and naming for 46 years. He combined originality in the manual work of analysis with a philosophical interest in systems and philological inventiveness in nomenclature. His names for four elements and for the concepts of isomerism, catalysis, and protein have remained in chemistry. In addition to his textbook, of which he left the fifth edition almost completed, he published 12,000 pages of his Annual Survey, and his printed scientific correspondence comprises about 5000 pages. With this in mind, we are scarcely surprised to read that, before his marriage in 1835, he “had been in the habit of writing from 6:30 in the morning until 10 at night” (p. 118).

Jorpes is weak in “defending” Berzelius for his theory of a general electrochemical dualism, when others may feel that Berzelius did not take his theory as seriously as it deserved. Perhaps for lack of space, Jorpes does not mention the thoughts about a force of life, which for Berzelius was not tainted with metaphysics any more than was the “power” of catalysis.

The story is accompanied by illustrations, many of them in color, from

the great collection in the Berzelius Museum, including the daguerreotype of 1844 by J. W. Bergström, reproduced here. In addition to the 23 numbered figures, there are four more of great charm and historical interest. The book thereby becomes a real treasure to be enjoyed by all chemists. For the historian in particular, Jorpes has appended part of Söderbaum's report on the analytical work, 1808–1821, with all the references.

EDUARD FARBER

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Washington, D.C.

New Books

Anatomie des Blattes. vol. 1, *Blattanatomie der Gymnospermen*. Klaus Napp-Zinn. Borntraeger, Berlin, 1966. 383 pp. Illus. DM 120.

Annual Reports in Medicinal Chemistry, 1965. Cornelius K. Cain, Ed. Academic Press, New York, 1966. 352 pp. Illus. Paper, \$7.50. Thirty-one papers.

Amazon Soils. A reconnaissance of the soils of the Brazilian Amazon region. W. G. Sombroek. Centre for Agricultural Publications and Documentation, Wageningen, Netherlands, 1966. 298 pp. Illus. Maps. \$12.50.

Australian Mineral Industry: Production and Trade, 1842–1964. Compiled and edited by Z. Kalix, L. M. Fraser, and R. I. Rawson. Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1966. 483 pp.

Biochemical Genetics. Hubert J. Van Peenen, Ed. Thomas, Springfield, Ill., 1966. 350 pp. Illus. \$12.75. Six papers.

Biographical Memoirs of Fellows of the Royal Society. vol. 12. Royal Soc., London, 1966. 572 pp. Illus. \$15. Twenty-eight biographies.

Biologie der Meereshöhlen. Topographie, faunistik und ökologie eines unterseeischen lebensraumes eine monographie. Rupert Riedl. Parey, Hamburg, 1966. 636 pp. Illus. DM 186.

The Cellular Slime Molds. John Tyler Bonner. Princeton Univ. Press, Princeton, N.J., ed. 2, 1967. 215 pp. Illus. \$7.50.

The Chemical Bond. A brief introduction to modern structural chemistry. Linus Pauling. Cornell Univ. Press, Ithaca, N.Y., 1967. 279 pp. Illus. Paper, \$3.95. An abridged version of *The Nature of the Chemical Bond* (ed. 3).

Clinical Evaluation in Breast Cancer. Proceedings of the First Imperial Cancer Research Fund Symposium (London), October 1965. J. L. Hayward and R. D. Bulbrook, Eds. Academic Press, New York, 1966. 308 pp. Illus. \$14. Nineteen papers.

Comparison of the Properties of Open-Hearth and Basic Oxygen Alloy Steels. American Soc. for Testing and Materials, Philadelphia, 1966. 20 pp. Paper, \$1.50.

Computation in Linguistics: A Case Book. Paul L. Garvin and Bernard Spol-

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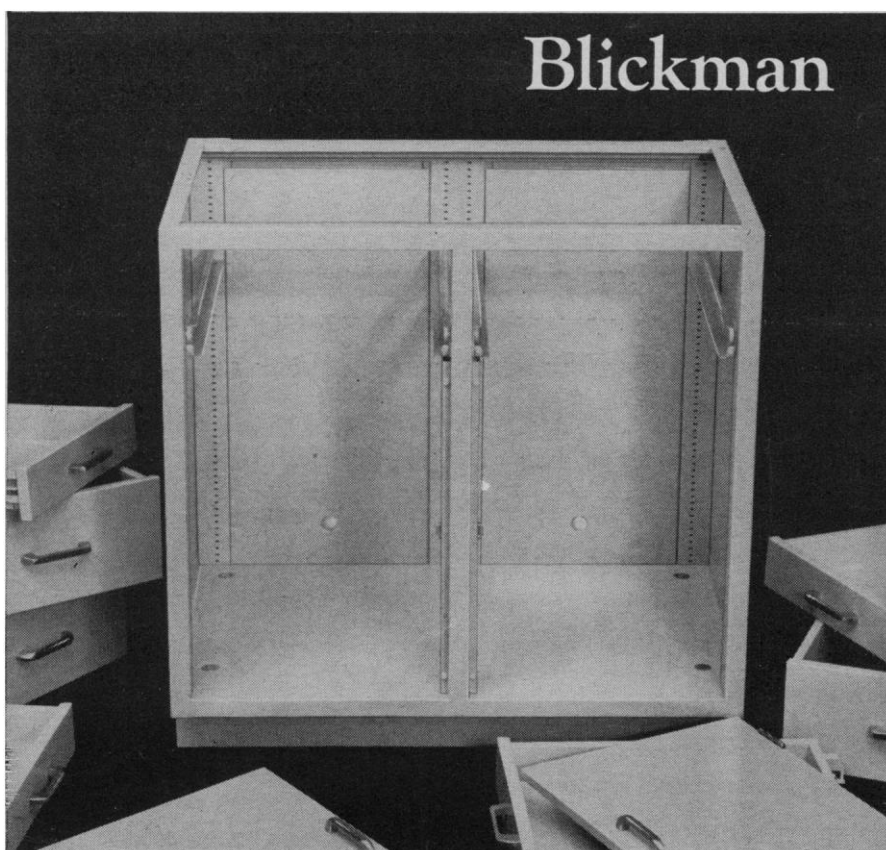
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NEW BOOKS

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sky, Eds. Indiana Univ. Press, Bloomington, 1966. 352 pp. Illus. \$7.95. Indiana University Studies in the History and Theory of Linguistics. Twelve papers.

The Concept of Identity. David J. de Levita. Translated from the Dutch edition (The Hague, 1965) by Ian Finlay. Mouton, The Hague, Netherlands; Basic Books, New York, 1966. 221 pp. \$6.

Crystal Structures. vol. 5, *The Structures of Aliphatic Compounds.* Ralph W. G. Wyckoff. Interscience (Wiley), New York, ed. 2, 1966. 793 pp. Illus. \$25.

The Departmental Laboratory Assistant in Biological Science. A book of principles, methods, and techniques. Harold C. Steele. Dorrance, Philadelphia, 1966. 231 pp. \$5.75.

The Dream and Human Societies. Based on the proceedings of the international colloquium (Asnieres-sur-Oise, France), June 1962. G. E. von Grunebaum and Roger Caillois, Eds. Univ. of California Press, Berkeley, 1966. 471 pp. Illus. \$10. Twenty-five papers.

Developments in Psychoanalysis at Columbia University. Proceedings of the Twentieth Anniversary Conference (New York), October 1965. George S. Goldman and Daniel Shapiro, Eds. Hafner, New York, 1966. 373 pp. Illus. \$12.50. Fourteen papers.

Dynamische Biochemie: Grundlagen und moderne Erkenntnisse. Pt. 2. Eberhard Hofmann. Akademie-Verlag, Berlin, 1966. 280 pp. Illus. Paper.

Encyclopedia of Chemical Technology. vol. 11, *Hexanes to Ion Exchange.* Herman F. Mark, John J. McKetta, Jr., and Donald F. Othmer, Eds. Interscience (Wiley), New York, ed. 2, 1966. 913 pp. Illus. \$50.

Encyclopedia of Industrial Chemical Analysis. vol. 3, *General Techniques, P-Z.* Index to Volumes 1-3. Foster D. Snell and Clifford L. Hilton, Eds. Interscience (Wiley), New York, 1966. 857 pp. Illus. \$45; subscription, \$35.

Engine Test Sequences for Evaluating Automotive Lubricants for API Service MS. American Soc. for Testing and Materials, Philadelphia, 1966. 45 pp. Illus. Paper, \$1.75.

Experimental Mechanics. vol. 2. Proceedings of the Second SESA International Congress (Washington, D.C.), September-October 1965. Sponsored by Society for Experimental Stress Analysis. B. E. Rossi, Ed. Pergamon, New York, 1966. 537 pp. Illus. \$27.50. Sixty-four papers.

Family in Transition: A Study of 300 Yugoslav Villages. Vera St. Erlich. Princeton Univ. Press, Princeton, N.J., 1966. 489 pp. Illus. \$12.50.

The Fluid Dynamic Aspects of Space Flight. vol. 1. Proceedings of the AGARD-NATO Specialists' Meeting (Marseille, France), April 1964. Sponsored by the Fluid Dynamics Panel of AGARD. Published for the North Atlantic Treaty Organization. Gordon and Breach, New York, 1966. 416 pp. Illus. \$22.50. Fifteen papers.

Fundamental Concepts of Biology. Gideon E. Nelson, Gerald G. Robinson, and Richard A. Boolootian. Wiley, New York, 1966. 341 pp. Illus. \$7.50.

Infinite Series. Earl D. Rainville. Macmillan, New York, 1967. 279 pp. Illus. \$7.95.

The Influence of Culture on Visual Perception. Marshall H. Segall, Donald T. Campbell, and Melville J. Herskovits. Bobbs-Merrill, New York, 1966. 286 pp. Illus. Paper, \$2.95.

Introduction to Contemporary Algebra. Marvin L. Tomber. Prentice-Hall, Englewood Cliffs, N.J., 1967. 443 pp. Illus. \$7.95. Prentice-Hall Mathematics Series.

Ion Exchange: A Series of Advances. vol. 1. Jacob A. Marinsky, Ed. Dekker, New York, 1966. 436 pp. Illus. \$16.75. Nine papers.

The Logical Structure of the World: Pseudoproblems in Philosophy. Rudolf Carnap. Translated from the German edition by Rolf A. George. Univ. of California Press, Berkeley, 1967. 390 pp. \$8.50.

Low Temperature Oxidation. W. Jost, Ed. Published for the North Atlantic Treaty Organization. Gordon and Breach, New York, 1966. 426 pp. Illus. \$22.50. Eleven papers.

Mathematical Theory of Elementary Particles. Proceedings of a conference (Dedham, Mass.), September 1965. Roe Goodman and Irving Segal, Eds. M.I.T. Press, Cambridge, Mass., 1966. 198 pp. Illus. \$6. Thirteen papers.

Medical Innovation: A Diffusion Study. James S. Coleman, Elihu Katz, and Herbert Menzel. Bobbs-Merrill, New York, 1966. 268 pp. Illus. Paper, \$2.95.

Multi-Sulfur and Sulfur and Oxygen Five- and Six-Membered Heterocycles. Pt. 1. David S. Breslow and Herman Skolnik. Interscience (Wiley), New York, 1966. 632 pp. Illus. \$33. The Chemistry of Heterocyclic Compounds Series.

Neurology. Roy R. Grinker and Adolph L. Saks. Thomas, Springfield, Ill., ed. 6, 1966. 1645 pp. Illus. \$33.50.

Nobel Lectures in Physics. vol. 1, 1901-1921. Published for the Nobel Foundation. Elsevier, New York, 1967. 510 pp. Illus. \$85 for set of three volumes.

Nonionic Surfactants. Martin J. Schick, Ed. Dekker, New York, 1967. 1111 pp. Illus. \$43.50. Surfactant Science Series, vol. 1. Twenty-eight papers.

Optics and Spectroscopy. Suppls. 1 and 2. Suppl. 1, *Luminescence* (192 pp.); Suppl. 2, *Molecular Spectroscopy* (180 pp.). S. E. Frish, P. O. Feofilov, and L. S. Sazonov, Eds. Translated from the Russian edition (Moscow, 1963). C. W. Garland, Translation Ed. Optical Soc. of America, Washington, D.C., 1966. Illus. Paper, \$15 each volume. 125 papers.

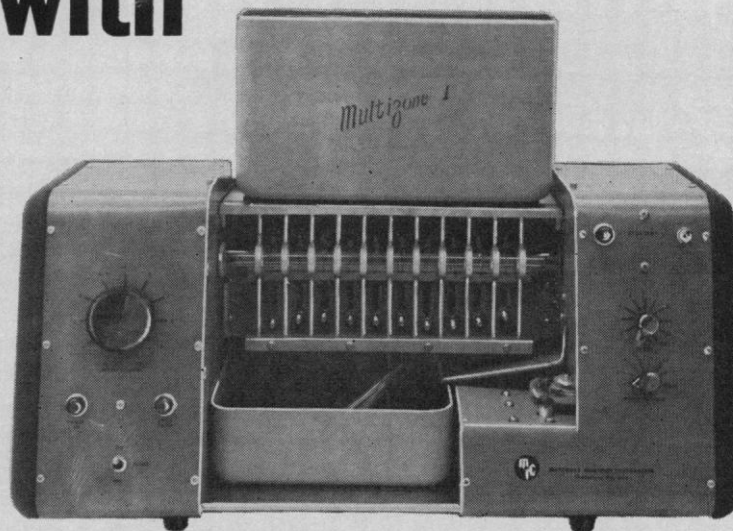
Palaeoecology of Africa and of the Surrounding Islands and Antarctica. vol. 1, *A Re-issue of Palynology in Africa Reports 1-8 (1950-1963)*. E. M. van Zinderen Bakker, Ed. Balkema, Cape Town, 1966. 274 pp. Illus. R 6.00.

Louis Pasteur: The Man and His Theories. Hilaire Cuny. Translated by Patrick Evans. Fawcett, Greenwich, Conn., 1967. 192 pp. Paper, 60¢. Reprint, 1965 edition.

Physical Principles of Magnetism. F. Brailsford. Van Nostrand, Princeton, N.J., 1966. 284 pp. Illus. \$9.75.

The Physiology of Diuretic Agents (*Ann. N.Y. Acad. Sci.* 139). Edward M. Weyer, Ed. New York Acad. of Sciences,

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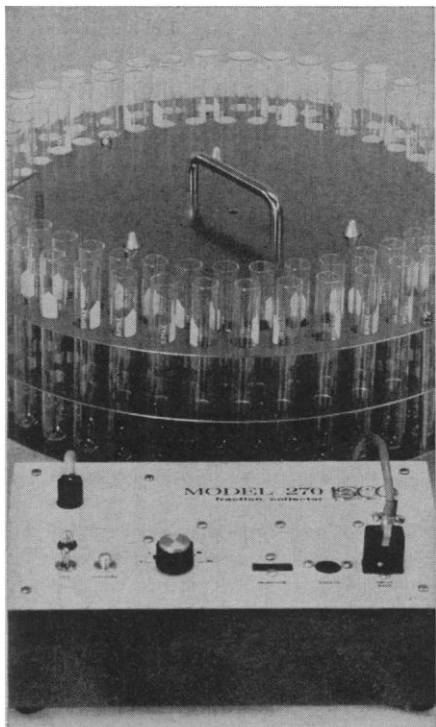
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New York, 1966. 539 pp. Illus. Paper, \$7. Twenty-five papers presented at a conference held in March 1966.

Poisonous and Venomous Marine Animals of the World. vol. 1, *Invertebrates*. Bruce W. Halstead. U.S. Government Printing Office, Washington, D.C., 1965. 1030 pp. Illus. \$50 for set of three volumes.

Political Anthropology. Marc J. Swartz, Victor W. Turner, and Arthur Tuden, Eds. Aldine, Chicago, 1966. 319 pp. \$8.95. Seventeen papers.

Principles of Continua with Applications. L. Albert Scipio. Wiley, New York, 1967. 288 pp. Illus. \$10.95.

Principles of Ideal-Fluid Aerodynamics. Krishnamurty Karamcheti. Wiley, New York, 1966. 654 pp. Illus. \$20.

Les Problèmes Météorologiques de la Stratosphère et de la Mésosphère. Colloque Franco-Belge sous la Présidence de Marcel Nicolet (Paris), March 1965. Presses Universitaires de France, Paris, 1966. 486 pp. Illus. Paper, F 48.

Problems in Differential Equations. J. L. Brenner. Freeman, San Francisco, ed. 2, 1966. 182 pp. Paper, \$2.50.

Problems in Engineering Soils. P. Leonard Capper, W. Fisher Cassie, and J. D. Geddes. Barnes and Noble, New York, 1966. 191 pp. Illus. Paper, \$3.50; cloth, \$5.75.

Progress in the Science and Technology of the Rare Earths. vol. 2. LeRoy Eyring, Ed. Pergamon, New York, 1966. 372 pp. Illus. \$15. Eight papers.

Pumping of Liquids. F. A. Holland and F. S. Chapman. Reinhold, New York, 1966. 412 pp. Illus. \$20.

Radar Techniques for Detection Tracking and Navigation. Proceedings of the Eighth Symposium of the AGARD Avionics Panel (London), September 1964. W. T. Blackband, Ed. Published for the North Atlantic Treaty Organization. Gordon and Breach, New York, 1966. 616 pp. Illus. \$37.50. Thirty-one papers.

Radiation Processes in Plasmas. G. Bekefi. Wiley, New York, 1966. 391 pp. Illus. \$15.75.

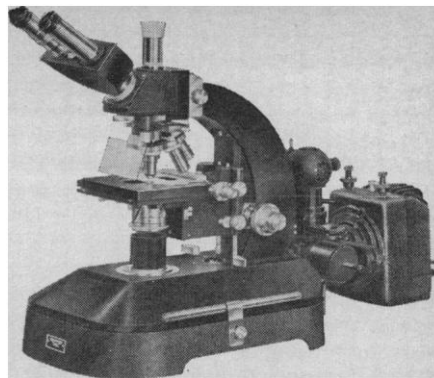
Radio Telescopes. D. V. Skobel'tsyn, Ed. Translated from the Russian edition (Moscow, 1965). Consultants Bureau (Plenum), New York, 1966. 179 pp. Illus. Paper, \$22.50. The Lebedev Physics Institute Series, vol. 28. Seventeen papers.

Radioisotopes for Aerospace. Pt. 2, *Systems and Applications*. Proceedings of the First Symposium on Radioisotope Applications in Aerospace (Dayton, Ohio), February 1966. Sponsored by U.S. Air Force, U.S. Atomic Energy Commission, and Instrument Soc. of America. John C. Dempsey and Paul Polishuk, Eds. Plenum Press, New York, 1966. 476 pp. Illus. Pts. 1 and 2, \$37.50. Twenty-seven papers.

Religion and Politics in Haiti. Harold Courlander and Rémy Bastien. Institute for Cross-Cultural Research, Washington, D.C., 1966. 99 pp. Illus. Paper, \$2; cloth, \$3.

The Remarkable Sine Functions. A. I. Markushevich. Translated from the Russian edition (Moscow, 1965) by Scripta Technica. Leon Ehrenpreis, Translation Ed. Elsevier, New York, 1966. 110 pp. Illus. \$6.50.

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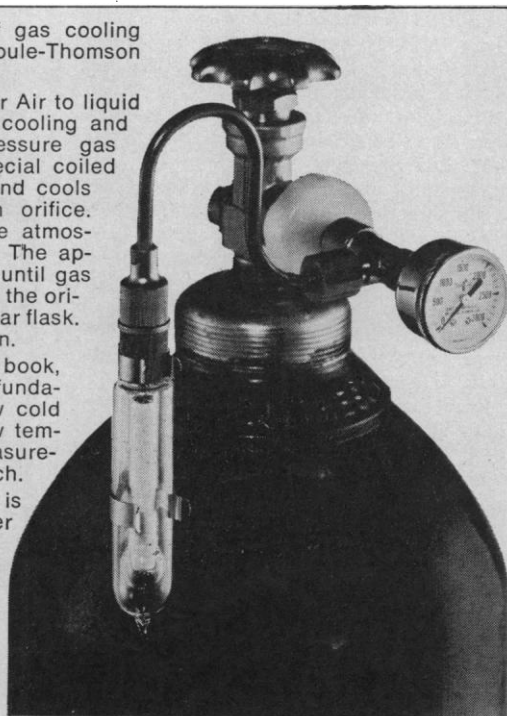
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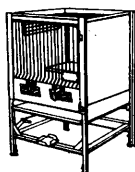
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Albert Schweitzer. Conférences du Congrès International des Écrivains-Médecins (Debrecen, Hungary), 1966. Hermann Baur and others. Kultura, Budapest, 1966. 211 pp. Paper, \$2.40. Twenty papers.

The Search for Order, 1877-1920. Robert H. Wiebe. Hill and Wang, New York, 1967. 349 pp. \$5.

Selected Papers on the Transfer of Radiation. Donald H. Menzel, Ed. Dover, New York, 1966. 275 pp. Illus. Paper, \$3. Six papers published between 1905 and 1930.

Soil Organic Matter: Its Nature, Its Role in Soil Formation and in Soil Fertility. M. M. Kononova. Translated from the Russian edition (Moscow, 1963) by T. Z. Nowakowski and A. C. D. Newman. Pergamon, New York, ed. 2, 1966. 544 pp. Illus. \$15.

The Sound and the Sea. A guide to northwestern neritic invertebrate zoology. Charles J. Flora and Eugene Fairbanks. Pioneer Printing Company, Bellingham, Wash., ed. 2, 1966. 467 pp. Illus. \$8.50.

The Strawberry: History, Breeding, and Physiology. George M. Darrow. Holt, Rinehart, and Winston, New York, 1966. 463 pp. Illus. \$15.

Strength Under High Transient Loads. Kh. A. Rakhmatulin and Yu. A. Dem'yanov. Translated from the Russian edition (Moscow, 1961) by A. Hananel and A. Baruch. T. Pelz, translation Ed. Israel Program for Scientific Translations, Jerusalem; Davey, New York, 1966. 348 pp. Illus. \$14.

The Stress Corrosion of Metals. Hugh L. Logan. Wiley, New York, 1966. 320 pp. Illus. \$13.95.

Structural Adhesives Bonding. A symposium (Hoboken, N.J.), September 1965. Michael J. Bodnar, Ed. Interscience (Wiley), New York, 1966. 503 pp. Illus. Paper, \$15. Applied Polymer Symposia, No. 3. Thirty-two papers.

Structural Matrix Analysis for the Engineer. John Robinson. Wiley, New York, 1966. 364 pp. Illus. \$11.95.

The Structure of Inorganic Radicals. An application of electron spin resonance to the study of molecular structure. P. W. Atkins and M. C. R. Symons. Elsevier, New York, 1967. 290 pp. Illus. \$21.75.

Studies on the Anatomy and Function of Bones and Joints. F. Gaynor Evans, Ed. Springer-Verlag, New York, 1966. 163 pp. Illus. \$12. Ten papers given at a symposium on Joints and Bones for the Eighth International Congress of Anatomists (Wiesbaden, Germany), August 1965.

Studies on Chemical Structure and Reactivity. J. H. Ridd, Ed. Wiley, New York, 1966. 300 pp. Illus. \$8.25. The volume is presented to Sir Christopher Ingold; includes 14 papers.

Summable Series and Convergence Factors. Charles N. Moore. Dover, New York, 1966. 113 pp. Paper, \$1.50. Reprint, 1938 edition.

System Analysis by Digital Computer. Franklin F. Kuo and James F. Kaiser, Eds. Wiley, New York, 1966. 454 pp. Illus. \$8.95. There are 12 papers.

Technology in Early America: Needs and Opportunities for Study. Brooke Hindle. Published for the Institute of Early American History and Culture. Univ. of North Carolina Press, Chapel Hill, 1966. 165 pp. \$4.50.

Techniques in Protein Chemistry. J. Leggett Bailey. Elsevier, New York, ed. 2, 1967. 420 pp. Illus. \$20.

Television Film Engineering. Rodger J. Ross. Wiley, New York, 1966. 525 pp. Illus. \$15. Wiley Series on Photographic Science and Technology and the Graphic Arts.

Testing of Polymers. vol. 2. John V. Schmitz, Ed. Interscience (Wiley), New York, 1966. 435 pp. Illus. \$19. Eleven papers.

Thermodynamics of Steady States. Ralph J. Tykodi. Macmillan, New York, 1967. 236 pp. Illus. \$10.95.

Time. Samuel A. Goudsmit, Robert Claiborne and the Editors of *Life*. Time Inc., New York, 1966. 199 pp. Illus. \$3.95. Life Science Library series.

Topics in the Theory of Functions of Several Complex Variables. William Fogg Osgood. Dover, New York, 1966. 124 pp. Paper, \$1.50. Reprint, 1914 edition.

Topological Spaces. Eduard Čech. Revised edition by Zdeněk Frolík and Miroslav Katětov. Translated from the second Czech edition. Charles O. Junge, Translation Ed. Czechoslovak Acad. of Sciences, Prague; Interscience (Wiley), New York, 1966. 893 pp. \$22.50.

Tritium and Its Compounds. E. Anthony Evans. Van Nostrand, Princeton, N.J., 1966. 455 pp. Illus. \$15.

Understanding Evolution. Herbert H. Ross. Prentice-Hall, Englewood Cliffs, N.J., 1966. 189 pp. Illus. Paper, \$2.45; cloth, \$4.95.

Unusual Clinical Features of Cirrhosis and Primary Liver Cell Carcinoma. Luis Leon-Sotomayor and Victor A. Moore. Thomas, Springfield, Ill., 1966. 190 pp. Illus. \$9.50.

Value Distribution Theory. Leo Sario and Kiyoshi Noshiro. Van Nostrand, Princeton, N.J., 1966. 248 pp. \$7. University Series in Higher Mathematics.

La Végétation Forestière du Québec Méridional. Miroslav M. Grandtner. Les Presses de l'Université Laval, Québec, Canada, 1966. 242 pp. Illus. \$12.

The Vitamin Co-Factors of Enzyme Systems. F. A. Robinson. Pergamon, New York, 1966. 906 pp. Illus. \$25.

The Way of the Scientist. Interviews from the world of science and technology. Robert Colborn, Ed. Simon and Schuster, New York, 1967. 382 pp. Illus. \$8.95. Thirty-two papers.

The Wild Turkey: Its History and Domestication. A. W. Schorger. Univ. of Oklahoma Press, Norman, 1966. 639 pp. Illus. \$10.

Workbook in General Botany. Clarence E. Taft, Bernard S. Meyer, Glenn W. Blaydes, and H. C. Sampson. Harper and Row, New York, ed. 3, 1966. 230 pp. Illus.

The World of the Polar Bear. Richard Perry. Univ. of Washington Press, Seattle, 1967. 207 pp. Illus. \$4.95.

Yearbook of Astronomy. Patrick Moore, Ed. Norton, New York, 1967. 195 pp. Illus. \$4.75.

3 FEBRUARY 1967



AUTO-AQUATRATOR™ adds burette selector switch to improve speed and accuracy of Karl Fischer titrations.

Now, with Precision's Auto-Aquatrator you can use *either* burette for direct KF titration — which means substantially greater speed and accuracy when you're running diversified samples of high or low water content. A new burette selector switch does the trick — and yet at any time you wish, you can switch back to the conventional water-methanol-KF setup.

Here's how it works. Any two of

three different sized burettes may be used. Two KF solutions of different titer are prepared and connected to these burettes. As samples are submitted for analysis, of presumed known high or low moisture content, a flip of the new burette switch selects either the right or left burette and direct titrations are automatically performed with no time lost replacing burettes, solutions, opening and emptying reaction vessel.

THE AUTO-AQUATRATOR is the last word in automatic water determinations. One compact unit handles any organic or inorganic, and gives you quick, accurate and consistent results — reproducible to ± 0.025 ml of titrant.

Here are some of the Auto-Aquatrator's features: The system is sealed against atmospheric moisture, with a built-in vacuum pump to remove any humid air from the reaction vessel. Each burette has its own electromagnetic valves, employing an ethylene-propylene tetramer valve face which guarantees no leaks. Stop cocks are eliminated. "End point hold" is automatic and there is an adjustable automatic transfer from "continuous" to "pulse" feed as end point is approached. Ask your Precision Scientific Dealer or write for Auto-Aquatrator Bulletin 642.

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