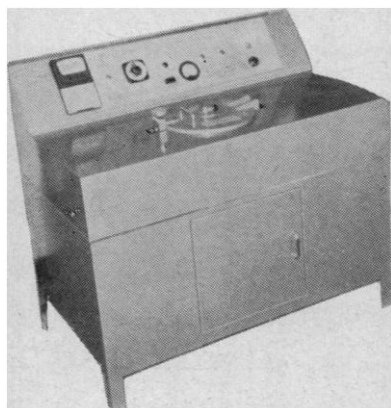


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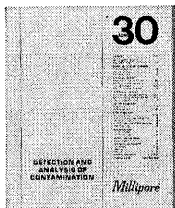
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\$8.50. **Frontiers in Chemistry**, edited by Ronald Breslow and Martin Karplus.

Methods of Quantum Chemistry. M. G. Veselov. Translated from the Russian edition (Leningrad, 1963) by Scripta Technica. S. Chomet, Translation Ed. Academic Press, New York, 1965. 193 pp. Illus. \$7.50.

Molecules, Crystals, and Quantum Statistics. Enrico Fermi. Translated from the Italian edition (Bologna, 1934) by M. Ferro-Luzzi. Lloyd Motz, Ed. Benjamin, New York, 1966. 314 pp. Illus. \$12.50.

Nondestructive Testing. Warren J. McGonnagle. Gordon and Breach, New York, ed. 2, 1966. 467 pp. Illus. \$25.

Nouveau Traité de Chimie Minérale. vol. 2, pt. 1, *Lithium, Sodium*. A. Chretien, R. Kohlmuller, P. Pascal and A.-P. Rollet. Masson, Paris, 1966. 1086 pp. Illus. Paper, F. 185; cloth, F. 197.

Nuclear Forces. D. M. Brink. Pergamon, New York, 1965. 242 pp. Illus. Paper, \$2.95. The Commonwealth and International Library.

OMNITAB: A Computer Program for Statistical and Numerical Analysis. Joseph Hilsenrath, Guy G. Ziegler, Carla G. Messina, Philip J. Walsh, and Robert J. Herbold. Natl. Bureau of Standards, Washington, D.C., 1966 (order from Superintendent of Documents, Washington, D.C.). 264 pp. Illus. \$3.

Optimal Control Systems. A. A. Fel'dbaum. Translated from the Russian edition (Moscow, 1963) by A. Kraiman. Academic Press, New York, 1965. 462 pp. Illus. \$16. Mathematics in Science and Engineering, edited by Richard Bellman.

Physical Geography. Michael P. McIntyre. Ronald, New York, 1966. 459 pp. Illus. \$6.50.

Physique de l'atmosphère. vol. 3, *Phénomènes d'absorption et de diffusion dans l'atmosphère*. Étienne Vassy. Gauthier-Villars, Paris, 1966. 295 pp. Illus. Paper, F. 45.

The Precambrian. vol. 2. Kalervo Rankama, Ed. Interscience (Wiley), New York, 1965. 462 pp. Illus. \$15. Four papers: "The Precambrian of Spitsbergen and Bjørnøya" by Thore S. Winsnes; "The Precambrian of the British Isles" by J. G. C. Anderson; "The Precambrian of Greenland" by Asger Berthelsen and Arne Noe-Nygaard; and "The Precambrian of Canada: The Canadian Shield" by M. E. Wilson.

Principles of Physical Chemistry. William H. Hamill, Russell R. Williams, Jr., and Colin MacKay. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1966. 592 pp. Illus. \$13.25.

Problems in Calculus and Related Topics. C. R. Jones. Butterworth, Washington, D.C., 1965. 200 pp. Illus. Paper, \$2.50.

Reaction Mechanisms in Organic Chemistry. Bianca Tchoubar. Translated from the second French edition (Paris, 1964) by Scripta Technica. Iliffe, London; Elsevier, New York, 1966. 197 pp. Illus. \$8.75.

Spectroscopic Analysis of Gas Mixtures. O. P. Bochkova and E. Ya. Shreyder. S. E. Frisch, Ed. Translated from the second Russian edition (Moscow, 1963) by Scripta Technica. Charles P. Poole, Jr., Translation Ed. Academic Press, New York, 1965. 325 pp. Illus. \$14.50.

The Structures of Alloys of Iron: An Elementary Introduction. W. Hume-Rothery. Pergamon, New York, 1966. 360 pp. Illus. Paper, \$4.95. The Commonwealth and International Library.

Superconductivity. M. Tinkham. Gordon and Breach, New York, 1965. 92 pp. Illus. Paper, \$2.50; cloth, \$4.50. Documents on Modern Physics Series, edited by Elliott W. Montroll, George H. Vineyard, and Maurice Levy.

The Theory of Beta Radioactivity. E. J. Konopinski. Oxford Univ. Press, New York, 1966. 413 pp. Illus. \$12. The International Series of Monographs on Physics.

The Theory of Quantum Liquids. vol. 1, *Normal Fermi Liquid*. David Pines and Philippe Nozières. Benjamin, New York, 1966. 367 pp. Illus. \$15.

Theory of Thermally Induced Gas Phase Reactions. E. E. Nikitin. Translated from the Russian edition (Moscow, 1964) by Scripta Technica. E. W. Schlag, Translation Ed. Indiana Univ. Press, Bloomington, 1966. 167 pp. Illus. \$5.

Thermal Properties of Matter. vol. 1, *Kinetic Theory of Gases*. Walter Kauzmann. Benjamin, New York, 1966. 262 pp. Illus. Paper, \$3.95; cloth, \$8.50. Physical Chemistry Monograph Series, edited by Walter Kauzmann.

Traité de Paléontologie. pt. 4, *L'origine des Vértébrés. Leur expansion dans les eaux douces et le milieu marin*. vol. 3, *Actinopterygiens, Crossopterygiens, Dipneustes*. Jean-Pierre Lehman, Hans L. Jessen, and Emilienne Genet-Varcin. Masson, Paris, 1966. 450 pp. Illus. F. 150.

Treatise on Irreversible and Statistical Thermodynamics. An introduction to non-classical thermodynamics. Wolfgang Yourgrau, Alwyn van der Merwe, and Gough Raw. Macmillan, New York, 1966. 288 pp. Illus. \$9.95.

Tropospheric Radiowave Propagation beyond the Horizon. Francois du Castel. Translated from the French edition (Paris, 1961) by E. Sofaer. Pergamon, New York, 1966. 248 pp. Illus. \$11.50. International Series of Monographs in Electromagnetic Waves, vol. 8, edited by A. L. Cullen, V. A. Fock, and J. R. Wait.

University Algebra. Richard E. Johnson. Prentice-Hall, Englewood Cliffs, N.J., 1966. 285 pp. Illus. \$10.60. Prentice-Hall Mathematics Series.

Velocity of Light. J. H. Sanders. Pergamon, New York, 1965. 154 pp. Illus. Paper, \$2.95. The Commonwealth and International Library.

Zone Melting. William G. Pfann. Wiley, New York, ed. 2, 1966. 326 pp. Illus. \$11.75. Wiley Series on the Science and Technology of Materials.

Conference and Symposium Reports

Advances in Biomedical Computer Applications. (*Ann. N.Y. Acad. Sci.* 128). Harold E. Whipple, Ed. New York Acad. of Sciences, New York, 1966. 297 pp. Illus. Paper, \$8. Thirty-one papers presented at a conference held in June 1965.

Advances in Hepatology. Transactions, International Symposium of the International Association for the Study of the Liver (Brussels and Louvain), June 1964.

J. Vandenbroucke, J. De Groote, and L. O. Standaert, Eds. Williams and Wilkins, Baltimore, 1965. 400 pp. Illus. \$22. Fifty papers on the following topics: Chronic Hepatitis (6 papers); Biliary Cirrhosis and Cholestasis (8 papers); Electron Microscopy of the Liver (4 papers); Bilirubin Metabolism (4 papers); Enzyme Studies (4 papers); Viral Hepatitis (4 papers); Cirrhosis (3 papers); Toxic Hepatitis, Alcohol Intoxication (5 papers); Portal Circulation, Portacaval Shunt, Oesophageal Varices (6 papers); and Chronic Liver Disease, and Other Subjects (6 papers).

Advances in Water Pollution. Proceedings, Second International Conference (Tokyo), August 1964. vol. 1 (16 papers, 403 pp.), edited by O. Jaag; vol. 2 (16 papers, 383 pp.), edited by J. K. Baars; vol. 3 (16 papers, 377 pp.), edited by E. A. Pearson. Pergamon, New York, 1965. Illus. \$45 set.

Analysis Instrumentation, 1965. Proceedings, eleventh annual symposium (Montreal, Canada), May 1965. L. Fowler, R. G. Harmon, and D. K. Roe, Eds. Plenum Press, New York, 1966. 248 pp. Illus. \$12.50. Twenty-one papers on the following topics: Laboratory Chromatography (3 papers); Sample Handling (3 papers); Laboratory Instrumentation (1 paper); Process Chromatography (3 papers); Radiation Methods (2 papers); Electrochemical Methods (3 papers); Optical Methods (4 papers); and Chemical Methods (2 papers).

Arithmetical Algebraic Geometry. Proceedings of a conference organized by the Purdue University Division of Mathematical Sciences (Lafayette, Ind.), December 1963. O. F. G. Schilling, Ed. Harper and Row, New York, 1966. 208 pp. Illus. \$6.50. Harper's Series in Modern Mathematics, edited by I. N. Herstein and Gian-Carlo Rota; Nine papers: "On the arithmetical theory of the classical groups" by André Weil; "On the orbit spaces of arithmetic groups" by Walter L. Baily, Jr.; "On discrete subgroups of p -adic algebraic groups" by Tsuneo Tamagawa; "Analytic theory of the zeta function of algebraic varieties" by Bernard M. Dwork; "Picard groups of moduli problems" by David Mumford; "Zeta and L functions" by Jean-Pierre Serre; "Algebraic cycles and poles of zeta functions" by John T. Tate; "Resolution of singularities of arithmetical surfaces" by Shreeram S. Abhyankar; and "On the equivalence of singularities, I" by Heisuke Hironaka.

Aspects of Insect Biochemistry. Biochemical Society Symposium (London), April 1965. T. W. Goodwin, Ed. Academic Press, New York, 1965. 119 pp. Illus. \$6. Seven papers: "Active transport in insects" by J. E. Treherne; "Formation of the specific structural and enzymic pattern of the insect flight muscle" by Th. Bücher; "Some distinctive features of insect metabolism" by F. P. W. Winteringham; "Intermediate metabolism and the insect fat body" by B. A. Kilby; "The metabolism of aromatic compounds" by P. C. J. Brunet; "Hormones controlling growth and development in insects" by V. B. Wigglesworth; and "Skeletal structure in insects" by K. M. Rudall.

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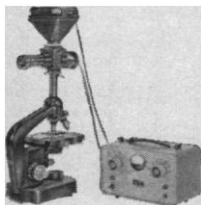
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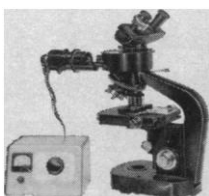


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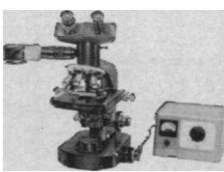
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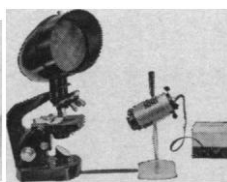
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ceptors. Biological Laboratory, Long Island Biological Assoc., Cold Spring Harbor, N.Y., 1965. 663 pp. Illus. \$15. Fifty-five papers on the following topics: General Physiology (4 papers); Mechanoreceptors (5 papers); Hearing (6 papers); Olfactory Receptors (4 papers); Electrical and Chemical Receptors (7 papers); Photoreceptors (24 papers); and Data Processing (5 papers).

Colloque sur le Crétacé inférieur (Lyon), September 1963. Bureau de Recherches Géologiques et Minières, Paris, 1965. 862 pp. Illus. Paper, Mémoires du B.R.G.M., No. 34.

Control of Energy Metabolism. A colloquium on metabolic control and a symposium on control of energy metabolism (Philadelphia), May 1965. Britton Chance, Ronald W. Estabrook, and John R. Williamson, Eds. Academic Press, New York, 1965. 453 pp. Illus. \$10.50. Thirty-nine papers.

Data Acquisition and Processing in Biology and Medicine. vol. 4. Proceedings of a conference (Rochester, N.Y.), 1964. Kurt Enslein and John F. Kinslow, Eds. Pergamon, New York, 1966. 260 pp. Illus. \$14.50. Eighteen papers.

Determination of Nonmetallic Compounds in Steel. A symposium (Lafayette, Ind.), June 1965. American Soc. for Testing and Materials, Philadelphia, 1966. 102 pp. Illus. Paper, \$4.75; members, \$3.50. Five papers: "The isolation, separation, and identification of microconstituents in steels" by K. W. Andrews and H. Hughes; "Application of differential thermal analysis-effluent gas analysis to the determination of nonmetallic compounds in steel" by W. R. Bandi, W. A. Straub, H. S. Karp, and L. M. Melnick; "Identification of inclusions with the electron probe microanalyzer" by K. F. J. Heinrich; "Studies on the determination of stable oxides in low-alloy steels using a combination of chemical separations" by J. P. McKaveney, W. J. Raber, G. L. Vassilaros, and J. M. Snook; and "Isolation of oxide inclusions from carbon steels using bromine-methyl acetate" by R. M. Raybeck and L. C. Pasztor.

Developmental and Metabolic Control Mechanisms and Neoplasia. A collection of papers presented at the Nineteenth Annual Symposium on Fundamental Cancer Research, 1965. Published for the Univ. of Texas M. D. Anderson Hospital and Tumor Institute. Williams and Wilkins, Baltimore, 1965. 526 pp. \$16. Twenty-four papers on the following topics: Biosynthesis and Control Mechanisms (8 papers); Molecular Basis of Early Development (8 papers); Molecular Basis of Later Development and Control (3 papers); and Comparative Studies of Control Mechanisms in Normal and Neoplastic Tissues (5 papers); and the Bertner Foundation Award Lecture "On some of the biological consequences of the base-pairing in the nucleic acids" by Erwin Chargaff.

Ecological Research in Humid Tropics Vegetation. A symposium (Kuching, Sarawak), July 1963. A. J. G. H. Kostermans and F. R. Fosberg, Eds. UNESCO Science Cooperation Office for Southeast Asia, Bangkok, Thailand, 1965. 386 pp. Illus. Paper. Thirty-one papers given at

a symposium sponsored by the Government of Sarawak and UNESCO Science Cooperation Office for Southeast Asia.

Energetics in Metallurgical Phenomena. vol. 2. Proceedings, 1963 seminar (Univ. of Denver, Colo.). William M. Mueller, Ed. Gordon and Breach, New York, 1965. 213 pp. Illus. Paper, \$5.50; cloth, \$11. Four papers: "The kinetic and thermodynamic properties of surfaces" by J. P. Hirth; "Solid solution formation" by B. L. Averbach; "The statistical mechanics of nucleation and crystal growth" by G. M. Pound; and "Point defects in metals" by G. J. Dienes.

Factors in the Operation of Manned Space Chambers. Symposium (Seattle, Wash.), October–November 1965. American Soc. for Testing and Materials, Philadelphia, 1966. 99 pp. Illus. Paper, \$8; members, \$5.60. Seven papers: "Functional man in simulated space" by A. F. Sullivan; "Physiological responses to near-vacuum" by R. W. Bancroft; "Instrumentation and data acquisition for pressure-suited test subjects in space environment simulation testing" by E. C. Wortz; "Man-rating provisions of the Boeing 40- by 50-foot space chamber" by John VanBronkhorst and J. W. Yerkes; "Manned operations in the NASA MSC low-pressure chambers" by J. H. Chappee, R. R. Hessberg, and W. R. Hawkins; "Man-rating the Douglas 39-foot-diameter space simulator" by J. T. Morrow; and "Rapid repressurization of space simulation chambers" by J. H. Jones, R. J. Berman, and B. Weichbrodt.

Fuel Cells: Their Electrochemical Kinetics. V. S. Bagotskii and Yu. B. Vasil'ev, Eds. Translated from the Russian edition (Moscow, 1964). Consultants Bureau, New York, 1966. 129 pp. Illus. Paper, \$15. Ten papers presented at the Second Fuel Cell Conference (Moscow).

Function Algebras. Proceedings of an international symposium (New Orleans, La.), April 1965. Frank T. Birtel, Ed. Scott, Foresman, Chicago, 1966. 367 pp. Illus. \$12.95. Forty-four papers on the following topics: Uniform Algebras (18 papers); Several Complex Variables (5 papers); Harmonic Analysis (12 papers); and Miscellaneous (9 papers).

Fundamental Phenomena in the Materials Sciences. vol. 2, *Surface Phenomena*. Proceedings, second symposium (Boston, Mass.), January 1964. L. J. Bonis and H. H. Hausner, Eds. Plenum Press, New York, 1966. 220 pp. Illus. \$12.50. Ten papers: "The structure and electronic configuration of crystalline surfaces" by Harry C. Gatos; "Present and proposed uses of low-energy electron diffraction in studying surfaces" by Lester H. Germer; "The effects of oxide and organic films on sliding friction" by P. M. Ku; "The deformational and geometrical aspect of surfaces in sliding contact" by F. F. Ling; "Effect of surface energy on lubrication" by Ernest Rabinowicz; "Problems of producing a clean surface by outgassing in ultrahigh vacuum" by Imre Farkass; "Physical adsorption by homogeneous and heterogeneous solid surfaces" by Sydney Ross; "The relation of the attractive forces at interfaces to wetting, spreading, adsorption, and long-range attractive forces" by Frederick M. Fowkes; "Solid-to-solid ad-

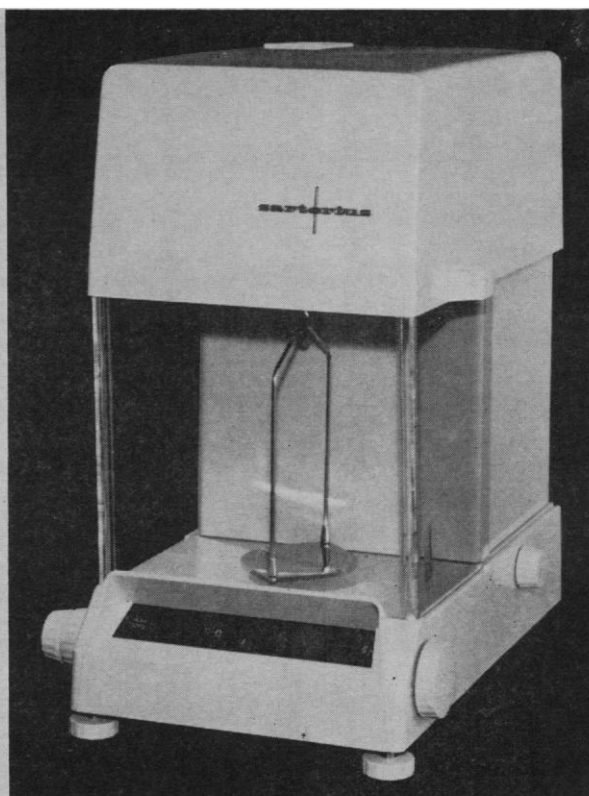
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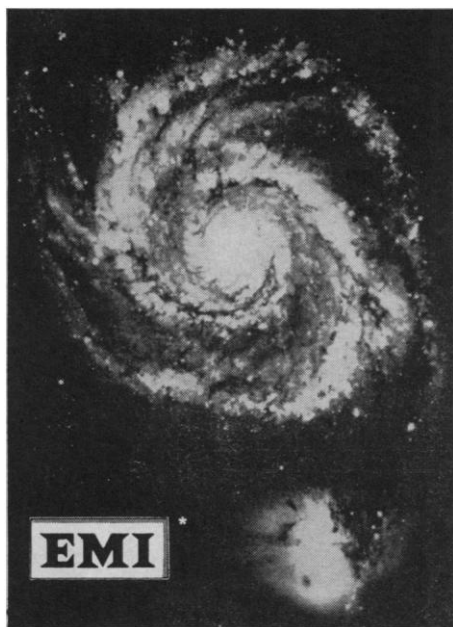
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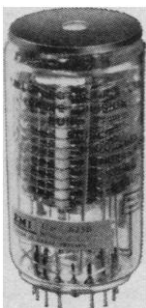
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hesion" by J. J. Bikerman; and "Spreading, penetration, and capillary flow in metallic systems" by C. M. Adams, Jr.

Impact of Basic Sciences on Medicine. Proceedings, International Symposium (Jerusalem, Israel), June 1965. Benjamin Shapiro, Ed. Israel Medical Assoc. and Natl. Council for Research and Development, Jerusalem, Israel, 1965. 333 pp. Illus. Paper, \$2.50. This volume, the *Israel Journal of Medical Sciences*, vol. 1, No. 6, contains 31 papers.

The Low Achiever in Mathematics. Report of a conference (Washington, D.C.), March 1964, sponsored by U.S. Office of Education and the National Council of Teachers of Mathematics. Lauren G. Woodby, Ed. U.S. Office of Education, Washington, D.C., 1965 (order from Superintendent of Documents, Washington, D.C.). 102 pp. Paper, 35¢.

Molecular and Cellular Basis of Antibody Formation. Proceedings of a symposium (Prague), June 1964. J. Sterzl, Ed. Czechoslovak Acad. of Sciences, Prague; Academic Press, New York, 1965. 683 pp. Illus. \$20. Forty-seven papers given at a symposium organized by the Immunological Department, Institute of Microbiology, Czechoslovak Academy of Sciences.

Peptides. Proceedings of the Sixth European Symposium (Athens), September 1963. L. Zervas, Ed. Pergamon, New York, 1966. 402 pp. Illus. \$17.50. Forty-eight papers and five discussions on the following topics: Methods of Synthesis (18 papers and 1 discussion); Racemization (4 papers and 1 discussion); Degradation of Peptide Chains (5 papers and 1 discussion); Synthesis of Natural Polypeptides and Analogues: Chemical Structure and Biological Activity (10 papers and 1 discussion); Synthesis and Properties of Some Special Peptides (3 papers and 1 discussion); Special Problems with Uncommon Amino-acids: Abnormal Peptides (5 papers); and Chemical and Physical Properties of Peptides (3 papers).

Phylogeny of Immunity. Richard T. Smith, Peter A. Meischer, and Robert A. Good, Eds. Univ. of Florida Press, Gainesville, 1966. 290 pp. Illus. \$15. Twenty-six papers given at a workshop on Developmental Immunology (Sanibel Island, Fla.) February 1965, sponsored by the National Institute of Child Health and Human Development.

Pre-School Child Malnutrition: Primary Deterrent to Human Progress. An international conference (Washington, D.C.), December 1964. Natl. Acad. Sciences-Natl. Research Council, Washington, D.C., 1966. 369 pp. Illus. \$7.50. Thirty-seven papers given at a conference organized by the Committee on Protein Malnutrition and the Committee on Child Nutrition, Food and Nutrition Board, Natl. Acad. of Sciences-Natl. Research Council.

Primary Sedimentary Structures and Their Hydrodynamic Interpretation. A symposium (Toronto, Canada), May 1964. Gerard V. Middleton, Ed. Soc. of Economic Paleontologists and Mineralogists, Tulsa, Okla., 1965. 271 pp. Illus. Paper, \$8; members, \$6. Fourteen papers and an introduction by G. V. Middleton.

Rare Earth Research. Proceedings,

Fourth Conference (Phoenix, Ariz.), April 1964. LeRoy Eyring, Ed. Gordon and Breach, New York, 1966. 769 pp. Illus. \$19.50. Forty-six papers on the following topics: Magnetic and Electrical Properties of Rare Earth Compounds (9 papers); The Properties of Rare Earth Metals and Alloys (10 papers); The Optical Properties and Solution Chemistry of Rare Earth Materials (8 papers); Solid State Chemistry of Rare Earth Materials, A (9 papers); and Solid State Chemistry of Rare Earth Materials, B (10 papers).

Special Ceramics 1964. Proceedings of a symposium held by the British Ceramic Research Association (Stoke-on-Trent), July 1964. P. Popper, Ed. Academic Press, New York, 1965. 353 pp. Illus. \$14.50. Twenty-two papers.

Structure and Properties of Polymers. Based on a Princeton University conference (Princeton, N.J.), January 1965. Arthur V. Tobolsky, Ed. Interscience (Wiley), New York, 1966. 199 pp. Illus. Paper, \$8. *Journal of Polymer Science*, No. 9, pt. C, Polymer Symposia. Eight papers: "Polymers in material science" by H. F. Mark; "Polymer flow in concentrated solutions and melts" by T. G. Fox; "Morphological foundations of plastics processing" by Bryce Maxwell; "Crystal-line character in polymers" by A. Peterlin; "Morphological foundations of fiber properties" by Ludwig Rebenfeld; "Properties and structure of elastomers" by Joginder Lal and Kenneth W. Scott; "Colloidal macromolecular phenomena" by O. A. Battista; and "Some viewpoints on polymer physics" by Arthur V. Tobolsky.

The Upper Mantle Symposium (New Delhi), December 1964. Charles H. Smith and Theodor Sorgenfrei, Ed. Det Berlingske Bogtrykkeri, Copenhagen, 1965. 188 pp. Illus. Paper, D.Kr. 28.30. Twenty-one papers on the following topics: Physical Processes in the Upper Mantle and Their Influence on the Crust (5 papers); Tectonics (8 papers); and Petrology and Volcanism (8 papers).

The Use of Induced Mutations in Plant Breeding. Report of the FAO/IAEA Technical Meeting (Rome), May-June 1964. 842 pp. Illus. \$45. Sixty-five papers on the following topics: Effects of Mutagens, Sensitivity to Mutagens and Control of Mutation Process (20 papers); Diploic Selection (2 papers); Characteristics and Genetics of Induced Mutants (8 papers); Induced Mutations and Breeding Methods in Sexually-Propagated Species (21 papers); Induced Mutations and Breeding Methods in Vegetatively Propagated Species (9 papers); and Induced Chromosome Changes and Special Techniques (5 papers).

Whales, Dolphins, and Porpoises. Based on a symposium (Washington, D.C.), August 1963. Kenneth S. Norris, Ed. Univ. of California Press, Berkeley, 1966. 805 pp. Illus. \$15. Thirty-eight papers presented at the First International Symposium on Cetacean Research; the topics considered were Systematics, Distribution, and Natural History (11 papers); Anatomy, Physiology, and Sea Animal Propulsion (8 papers); Underwater Observation and Recording (7 papers); Communication (5 papers); Echolocation and Recognition (3 papers); Behavior (4 papers); and a round table discussion on Practical Problems.