valuable. The great number of parameters that have to be used gives one a somewhat uneasy feeling. However, the criteria for choosing these parameters are well discussed, and the results obtained for polymer molecules are rather impressive. The chapters (5, 6, and 7) dealing with the calculation of average mean-square dipole moments and end-to-end distances are well written and should be highly useful to anyone interested in the calculation of these important properties. Although the literature is covered only up to 1963 and important later contributions are therefore not cited, the basic principles, which are the main subject of the book, remain valid. Especially worth mentioning is chapter 4, in which the relation between Ising models and Markoff chains is explained. This problem is well expounded and clearly discussed. Chapters 9, 10, and 11 deal with polypeptides and polynucleotides. These chapters should be highly valuable to biochemists who want to get an insight into the fundamental ideas behind phase transition in biopolymers.

Written on an advanced level, the book assumes a knowledge of matrix algebra. It is clearly written and the subject matter is well explained. The translation is excellent. In summary, nobody interested in the relation between chain structure and physical properties of polymer chains can afford to be without this book.

C. A. J. Hoeve

National Bureau of Standards, Washington, D. C.

Principles of Taxonomy

Phylogenetic Systematics. WILLI HENNIG. Translated from the German by D. Dwight Davis and Rainer Zangerl. University of Illinois Press, Urbana, 1966. 271 pp., illus. \$12.50.

Here finally is an opportunity for English-speaking biologists to become acquainted in detail with the views of Willi Hennig, the eminent German systematist. His thoughts have greatly influenced the activities of continental taxonomists, and a study of his writings will enable English-speaking workers to understand the philosophy underlying some of the European taxonomic literature of the last decade.

Following a general introduction concerning the nature of systematics, its special tasks, and the position of phylogenetic systematics (read "cladis-

tics") in relation to other schools of systematics, Hennig discusses problems of taxonomy of the lower categories, that is, of the species, and at the supraspecific level. The book concludes with a discussion of the principles and problems of phylogeny. Throughout the text Hennig maintains a consistently cladistic viewpoint which has considerable esthetic appeal but which is very difficult to maintain in practical systematic work. Although this reviewer disagrees with many of the conclusions that Hennig reaches from his evidence, a book review is not the place to debate the relative merits of different schools of systematics.

Had Hennig's Grundzüge einer Theorie der Phylogenetischen Systematik been translated during the early or middle 1950's, its effect on the development of systematic theory in the Englishspeaking world would have been very great. Hennig's clarity of thought, consistent phylogenetic philosophy, and profundity of insight and analysis would have won many adherents to his views. At the very least, those not agreeing with his philosophy would have had to meet his weighty arguments. Published in 1966, however, this book, although still impressive and important, is no longer as relevant to current issues of systematics as in the days of the original German edition published in 1950. While Hennig's arguments continue to have considerable validity and force, he apparently has not kept up with the rapid and numerous changes in systematics during the past decade. To cite but a single example, the revolutionary findings of modern genetics have not been dealt with at all.

The terse preface assures us that this volume is a translation not of the original German edition but of a reworked manuscript (of unstated date). It is true that references to some recent papers can be found and that various sections have been modified and updated to some extent. Nevertheless, the fundamental arrangement of the earlier work has been maintained and very large portions of the book are essentially straight translations from the previous text. Only 34 percent of its references are dated 1950 or later, as contrasted with 60 percent for Simpson's Principles of Animal Taxonomy, published in 1961, and 70 and 75 percent, respectively, for Davis and Heywood's Principles of Angiosperm Taxonomy and Sokal and Sneath's Principles of Numerical Taxonomy, both published in 1963. Hennig cites

only one reference later than 1960. Not even Simpson's book is referred to, an incomprehensible omission. The main use of the bibliography will be as an invaluable entrée into the voluminous German literature on systematics.

The translators have done a conscientious but unimaginative job of rendering Hennig's extremely involved and philosophical German style into English. Long sentences of crypto-Germanic construction abound, as does difficult and unfamiliar terminology, of which semaphoront, holomorph, tokogenetics, and vicariance are but a sample. A glossary or an index leading to clear definitions of the various terms would have been a great help. Even supposedly familiar terms such as "genetic" have unconventional meanings in the text. By contrast, many conventional terms of modern systematics are omitted. Those familiar with the German edition, which lacked an index, will be gratified by the presence of a subject index; the addition of an author index would have been equally helpful.

In spite of the shortcomings of the book, English-speaking systematists should be glad to have an opportunity to be exposed to the views of the foremost proponent of the cladistic school. Indeed, no thinking systematist can afford not to have read this volume.

ROBERT R. SOKAL

Department of Entomology, University of Kansas, Lawrence

Books Received

Absorption in Gas-Liquid Dispersions: Some Aspects of Bubble Technology. F. H. H. Valentin. Spon, London; Barnes and Noble, New York, 1967. 232 pp. Illus. \$10.

Airborne Microbes. A symposium of the Society for General Microbiology (London), April 1967. P. H. Gregory and J. L. Monteith, Eds. Cambridge Univ. Press, New York, 1967. 397 pp. Illus. \$13.50. Sixteen papers.

Algae and Fungi. C. J. Alexopoulos and H. C. Bold. Macmillan, New York, 1967. 143 pp. Illus. Paper, \$2.25. Current Concepts in Biology Series.

Algebra. Saunders MacLane and Garrett Birkhoff. Macmillan, New York, 1967. 620 pp. Illus. \$11.95.

An Atlas of Mammalian Chromosomes. vol. 1. T. C. Hsu and Kurt Benirschke. Springer-Verlag, New York, 1967. Unpaged. \$9.40. Consists of 50 folios.

Atlas stereotaxique du cerveau de brebis: Prealpes du Sud. P. Richard. Institut national de la Recherche agronomique, Versailles, 1967. Unpaged. Illus. Paper, F. 50.

(Continued on page 1413)

(Continued from page 1356)

Atomism in England from Hariot to Newton. Robert Hugh Kargon. Oxford Univ. Press, New York, 1966. 178 pp. \$6.75.

The Biology of Ultimate Concern. Theodosius Dobzhansky. New American Library, New York, 1967. 172 pp. \$5.

Bioscience. Robert B. Platt and George K. Reid. Reinhold, New York, 1967. 544 pp. Illus. \$9.50.

Andrew Brown and Cypress Lumbering in the Old Southwest. John Hebron Moore. Louisiana State Univ. Press, Baton Rouge, 1967. 196 pp. Illus. \$6.

B-Vitamine: Klinische und physiologischchemische Probleme. A symposium (Berlin), September-October 1965. H. Frhr. von Kress and K.-U. Blum, Eds. Schattauer, Stuttgart, Germany, 1966. 404 pp. Illus. Paper, DM. 69. Thirty-four papers. Most of the papers are in German, others in English.

Carbonatites. O. F. Tuttle and J. Gittins, Eds. Interscience (Wiley), New York, 1967. 611 pp. Illus. \$22.50. Sixteen papers.

The Central Nervous System of Vertebrates. vol. 2, Invertebrates and Origin of Vertebrates. Hartwig Kuhlenbeck. Academic Press, New York, 1967. 380 pp. Illus. \$17.50.

Charles E. Mortimer. Reinhold, New York, 1967. 704 pp. Illus. \$8.95.

Conserving Natural Resources: Principles and Practice in a Democracy. Shirley Walter Allen and Justin Wilkinson Leonard. McGraw-Hill, New York, ed. 3, 1966. 442 pp. Illus. \$8.95.

The Constitution of Glasses: A Dynamic Interpretation. vol. 2, pt. 2, Constitution and Properties of Some Representative Glasses. Woldemar A. Weyl and Evelyn Chostner Marboe. Interscience (Wiley), New York, 1967. 713 pp. Illus. \$27.95.

Creative Encounters in the Classroom: Teaching and Learning Through Discovery. Byron G. Massialas and Jack Zevin. Wiley, New York, 1967. 286 pp. Illus. Paper, \$3.50; cloth, \$5.95.

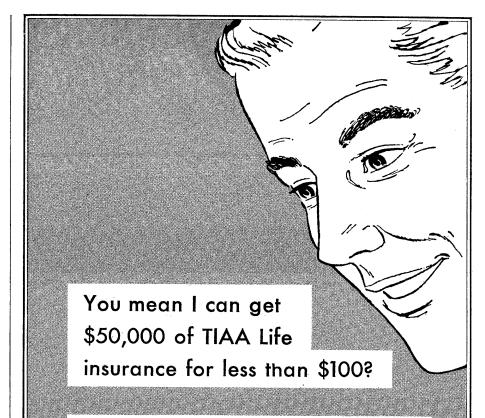
Delaware Seminar in the Foundations of Physics. Mario Bunge, Ed. Springer-Verlag, New York, 1967. 205 pp. \$9.50. Eleven papers. Studies in the Foundations Methodology and Philosophy of Science, vol. 1.

Digital Simulation in Operational Research. Proceedings of a conference (Hamburg), September 1965. Sponsored by the Scientific Affairs Division of NATO. S. H. Hollingdale, Ed. Elsevier, New York, 1967. 408 pp. Illus, \$14.50. There are 39 papers; in English or French.

A Different Approach to Thermodynamics. William Fay Luder. Reinhold, New York, 1967. 176 pp. Illus. Paper, \$2.95. Reinhold Chemistry Textbook Series

Dragons of the Air. An account of extinct flying reptiles. H. G. Seeley. Dover, New York, 1967. 263 pp. Illus. Paper, \$1.75. Reprint, 1901 edition.

Dynamics of Fluids and Plasmas. Proceedings of a symposium held in honor of J. M. Burgers (College Park, Md.), October 1965. Sponsored by Air Force Office



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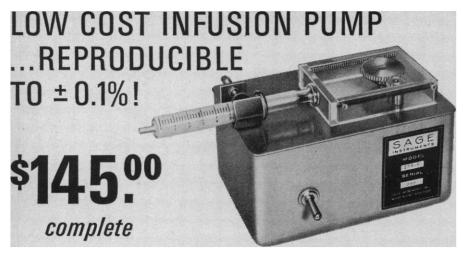
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of Scientific Research and the Institute for Fluid Dynamics and Applied Mathematics. S. I. Pai et al., Eds. Academic Press, New York, 1966. 543 pp. Illus. \$24. Twenty-four papers.

Electron-Diffraction Analysis of Clay Mineral Structures. Boris Borisovich Zvyagin. Translated from the revised Russian edition by Simon Lyse. Plenum Press, New York, 1967. 380 pp. Illus. \$19.50. Monographs in Geoscience Series.

Elementary Theory and Application of Numerical Analysis. David G. Moursund and Charles S. Duris. McGraw-Hill, New York, 1967. 311 pp. Illus. \$8.95. International Series in Pure and Applied Math-

Éléments d'Embryologie Causale. J. Fautrez. Gauthier-Villars, Paris, 1967. 306 pp. Illus. Paper, F. 32. Collection d'Enseignement Biologique.

Endocrine Genetics. Proceedings of a symposium (Cambridge, England), March 1966. S. G. Spickett and J. G. M. Shire, Eds. Cambridge Univ. Press, New York, 1967. 341 pp. Illus. \$13.50. Memoirs of the Society for Endocrinology, No. 15. Twenty-one papers.

An English-Classical Dictionary for the Use of Taxonomists. Compiled by Robert S. Woods. Pomona College, Claremont,

Calif., 1966. 345 pp. \$5.50.

Equations of Mathematical Physics. G. N. Polozhiy. Translated from the Russian edition (Moscow, 1964) by Scripta Technica. Michael Yanowitch, Translation Ed. Hayden, New York, 1967. 553 pp. Illus. \$14.50.

Essentials of Statistics for Scientists and Technologists. C. Mack. Plenum Press, New York, 1967. 182 pp. Illus. \$5.95.

Extraction Metallurgy. J. D. Gilchrist. Pergamon, New York, 1967. 303 pp. Illus. Paper, \$6. Commonwealth and International Library.

Fire Resistance of Hydraulic Fluids. A symposium (New Orleans), January 1966. Sponsored by the American Society for Testing and Materials and the Society of Automotive Engineers. American Soc. for Testing and Materials, Philadelphia, 1966.

200 pp. Illus. Paper, \$6.75. Ten papers.

Forest Trees of the Pacific Slope.

George B. Sudworth, Dover, New York, 1967. 471 pp. Illus. Paper, \$3. Reprint, 1908 edition.

Four Lectures on Relativity and Space. Charles Proteus Steinmetz. Dover, New York, 1967. 152 pp. Illus. Paper, \$1.35. Reprint, 1923 edition.

From Cell to Organism. Readings from Scientific American. Donald Kennedy. Freeman, San Francisco, 1967. 264 pp. Illus. Paper, \$4.45; cloth, \$9. Twenty-four papers.

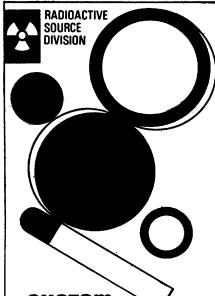
Gallium Arsenide. Proceedings of an international symposium (Reading, England), September 1966. A. C. Stickland and M. E. Hilton, Eds. Institute of Physics and Physical Soc., London, 1967. 255 pp. Illus. \$12. Thirty-four papers.

Gems, Minerals, Crystals and Ores: The Collector's Encyclopedia. Richard M. Pearl. Golden Press, New York, 1967. 320 pp. Illus. Paper, \$2.95. Reprint, 1964 edition.

Geochemistry and Mineralogy of Rare Elements and Genetic Types of Their Deposits. vol. 1, Geochemistry of Rare Ele-



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ments. K. A. Vlasov, Ed. Translated from the Russian edition (Moscow, 1964) by Z. Lerman. Y. Brenner, Translation Ed. Israel Program for Scientific Translations, Jersualem, 1966; Davey, New York, 1967. 702 pp. Illus. \$24.

Geology: Our Changing Earth through the Ages. Jerome Wyckoff. Golden Press, New York, 1967. 288 pp. Illus. Paper, \$2.95. Reprint, 1960 edition.

Getting Acquainted with Comets. Robert S. Richardson. McGraw-Hill, New York, 1967. 318 pp. Illus. \$7.50.

Gyroscopic Theory. Sir G. Greenhill. Chelsea, Bronx, N.Y., 1966. 283 pp. Illus. Plates. \$9.50. Reprint, 1914 edition.

John Harrison: The Man Who Found Longitude. Humphrey Quill. Humanities Press, New York, 1966. 269 pp. Illus. \$10.

William Harvey's Biological Ideas. Selected aspects and historical background. Walter Pagel. Hafner, New York, 1967. 394 pp. Illus. \$25.50.

Human Behavior: Shorter Edition. Bernard Berelson and Gary A. Steiner. Harcourt, Brace and World, New York, 1967. 231 pp. Illus. \$4.75. A condensation of Human Behavior: An Inventory of Scientific Findings.

Human Development. Frank Falkner, Ed. Saunders, Philadelphia, 1966, 664 pp. Illus. \$20. Sixteen papers.

The Human Nervous System: Basic Elements of Structure and Function. Charles R. Noback. McGraw-Hill, New York, 1967. 287 pp. Illus. \$13.95.

Hymenoptera of America North of Mexico. Prepared under the direction of Karl V. Krombein and B. D. Burks. U.S. Department of Agriculture, Washington, D.C., 1967 (order from Superintendent of Documents, Washington, D.C.). 586 pp. \$2.75.

Information Transmission. An introductory guide to the application of the theory of information to the human sciences. Elwyn Edwards. Chapman and Hall, London, 1964; Barnes and Noble, New York, 1967. 142 pp. Illus. Paper, \$2.85.

Inorganic Syntheses. vol. 9. S. Young Tyree, Jr., Ed. McGraw-Hill, New York, 1967. 255 pp. Illus. \$9.95.

Insect Colonization and Mass Production. Carroll N. Smith, Ed. Academic Press, New York, 1966. 640 pp. Illus. \$27. Thirty-nine papers.

Interaction of Radiation with Solids. Proceedings of the Solid State Conference (Cairo), September 1966. Adli Bishay, Ed. Plenum Press, New York, 1967. 711 pp. Illus. \$20. Forty-six papers.

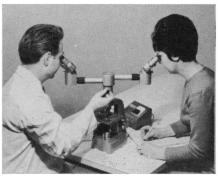
International Review of Experimental Pathology. vol. 5. G. W. Richter and M. A. Epstein, Eds. Academic Press, New York, 1966. 384 pp. Illus. \$16.50. Seven papers.

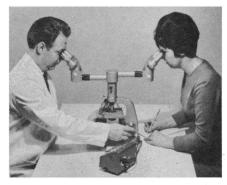
International Symposium on the Nucleolus, Its Structure and Function (Montevideo, Uruguay), December 1965. W. S. Vincent and O. L. Miller, Jr., Eds. U.S. Department of Health, Education, and Welfare, Washington, D.C., 1967 (order from Superintendent of Documents, Washington, D.C.). 630 pp. Illus. \$5. Thirty-seven papers.

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Pergamon, New York, 1967. 505 pp. Illus. \$11.50. International Series of Monographs in Pure and Applied Biology.

An Introduction to Parasitology. R. Alan Wilson. St. Martin's Press, New York, 1967. 63 pp. Illus. Paper, \$1.50. Studies in Biology, No. 4.

An Introduction to Sequences, Series,

An Introduction to Sequences, Series, and Improper Integrals. O. E. Stanaitis. Holden-Day, San Francisco, 1967. 220 pp. Illus. \$7.95.

An Introduction to Stochastic Processes: With Special Reference to Methods and Applications. M. S. Bartlett. Cambridge Univ. Press, New York, ed. 2, 1966. 378 pp. Illus \$9.50.

An Introduction to Tensor Calculus and Relativity. Derek F. Lawden. Methuen, London; Barnes and Noble, New York, ed. 2, 1967. 198 pp. Illus. Paper, \$2.85; cloth, \$4.50.

An Introduction to the Behavior of Ants. John H. Sudd. St. Martin's Press, New York, 1967. 208 pp. Illus. Paper, \$3.95; cloth, \$8.25.

An Introduction to the Laplace Transformation: With Engineering Applications. J. C. Jaeger. Methuen, London; Barnes and Noble, New York, 1967. 164 pp. Illus. Paper, \$1.50; cloth, \$3. Reprint of edition 2, 1961.

Ionic Reactions and Equilibria. Omer Robbins, Jr. Macmillan, New York, 1967. 384 pp. Illus. Paper, \$3.95.

Kinetics and Thermodynamics in Biochemistry. H. Geoffrey Bray and Kenneth White. Academic Press, New York, ed. 2, 1966. 430 pp. Illus. \$15.

Machine Intelligence. vol. 1. N. L. Collins and Donald Michie, Eds. Elsevier, New York, 1967. 288 pp. Illus. \$12.50. Seventeen papers.

Magnetic Resonance Spectroscopy. Harry G. Hecht. Wiley, New York, 1967. 173 Illus. \$5.95. Wiley Series in Pure and Applied Spectroscopy.

A Manager's Guide to Marketing Research: Survey of Recent Developments.
Paul E. Green and Ronald E. Frank. Interscience (Wiley), New York, 1967. 199
pp. Illus. \$7.95. Manager's Guide Series.
The Mathematical Theory of Linear

The Mathematical Theory of Linear Systems. B. M. Brown. Chapman and Hall, London; Barnes and Noble, New York, ed. 2, 1967. 293 pp. Illus. Paper, \$4.75; cloth, \$9. Automation and Control Engineering Series.

The Molecular Properties and Evolution of Excitable Cells. C. J. Duncan. Pergamon, New York, 1967. 265 pp. Illus. \$11.

The Morning of Mankind: Prehistoric Man in Europe. Robert Silverberg. New. York Graphic Soc., Greenwich, Conn., 1967. 256 pp. Illus. \$4.95.

Multivariate Statistical Methods. Donald F. Morrison. McGraw-Hill, New York, 1967. 352 pp. Illus. \$9.95. McGraw-Hill Series in Probability and Statistics. Mysterious Fires and Lights. Vincent

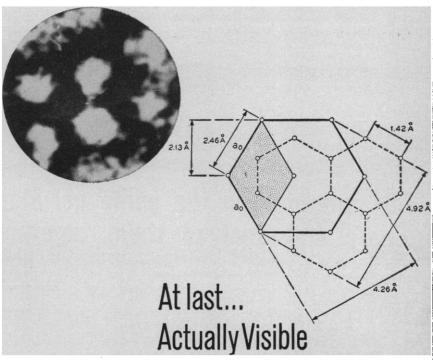
Mysterious Fires and Lights. Vincent H. Gaddis. McKay, New York, 1967. 288 pp. \$5.50.

The Neural Basis of Behavior. Lloyd S. Woodburne. Merrill, Columbus, Ohio, 1967. 384 pp. Illus. \$10. Merrill's International Psychology Series.

national Psychology Series.

Pharmaceutical Historiography. Proceedings of a colloquium (Madison, Wis.),
January 1966. Alex Berman, Ed. American Inst. of the History of Pharmacy,

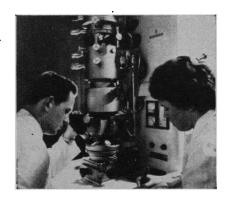




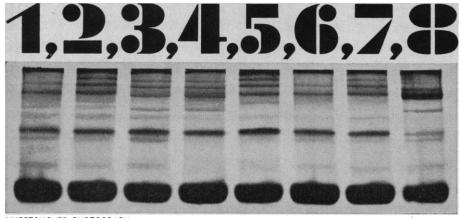
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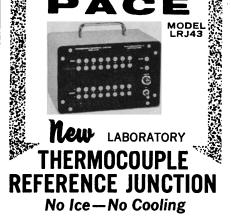
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Madison, 1967. 147 pp. Illus. Paper, \$2. Eleven papers.

Planets, Stars, and Galaxies: An Introduction to Astronomy. Stuart J. Inglis. Wiley, New York, ed. 2, 1967. 494 pp. Illus. \$7.95.

Plant Taxonomy. V. H. Heywood. St. Martin's Press, New York, 1967. 64 pp. Illus. Paper, \$1.50. Studies in Biology, No. 5.

The Politics of Experience. R. D. Laing. Pantheon Books, New York, 1967. 154 pp. \$4.95.

Polymer Fractionation. Manfred J. R. Cantow, Ed. Academic Press, New York, 1967. 539 pp. Illus. \$22.50. Fifteen papers.

Quantum Field Theory and Hydrodynamics. D. V. Skobel'tsyn, Ed. Translated from the Russian edition (Moscow, 1965). Consultants Bureau, New York, 1967. 283 pp. Illus. Paper, \$7.50. Proceedings of the P.N. Lebedev Physics Institute, vol. 29.

Radio Astronomy. John D. Kraus. With a chapter by Martti E. Tiuri. McGraw-Hill, New York, 1966. 491 pp. Illus. \$13.75.

Raman Spectroscopy: Theory and Practice. Herman A. Szymanski, Ed. Plenum Press, New York, 1967. 265 pp. Illus. \$12.50. Seven papers.

Rayonnement et dynamique du corpuscule chargé fortement accéléré. Henri Arzeliès. Gauthier-Villars, Paris, 1966. 477 pp. Illus. F. 88.

Scientific Research I: The Search for System. Mario Bunge. Springer-Verlag, New York, 1967. 548 pp. Illus. \$21. Studies in the Foundations Methodology and Philosophy of Science, vol. 3, pt. 1. Seismic Love Waves. Z. S. Andrianova,

V. I. Keilis-Borok, A. L. Levshin, and M. G. Neigauz. Translated from the Russian (Moscow, 1965) by F. M. C. Goodspeed. Consultants Bureau, New York, 1967. 105 pp. Illus. Paper, \$15.

Semiconductors and Semimetals. vol. 1, Physics of III-V Compounds. R. K. Willardson and Albert C. Beer. Academic Press, New York, 1966. 512 pp. Illus. \$19.

Southeast Asian Tribes, Minorities, and Nations. vols. 1 and 2. Peter Kunstadter, Ed. Published for the Princeton Center of International Studies. Princeton Univ. Press, Princeton, N.J., 1967. vol. 1, 500 pp.; vol. 2, 424 pp. Illus. \$22.50 per set.

Stochastically Dependent Equations: An Introductory Text for Econometricians. P. R. Fisk. Hafner, New York, 1967. 189 pp. Illus. Paper, \$6.40.

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Symétries de Type Lorentzien et Interactions Fortes. Moshé Flato. Gauthier-Villars, Paris, 1967. 154 pp. Illus. Paper, 32 F.F.

Symmetry Principles at High Energy. Coral Gables Fourth Conference (Coral Gables, Fla.), January 1967. Arnold Perlmutter and Behram Kurşunoğlu, Eds. Freeman, San Francisco, 1967. 259 pp. Illus. Paper, \$6. Nineteen papers.

Synthesis of RC Networks. Hun H. Sun. Hayden, New York, 1967. 160 pp. Illus. \$7.50.

Textile Laboratory Manual. vol. 3, Detergents. W. Garner. Elsevier, New York, ed. 3, 1967. 222 pp. Illus. \$9.

The Theory of the Scattering Matrix: For the Interactions of Fundamental Particles. A. O. Barut. Macmillan, New York, 1967. 364 pp. Illus. \$13.95.

Threshold Logic. P. M. Lewis II and C. L. Coates. Wiley, New York, 1967. 495 pp. Illus. \$15.

Traffic Engineering. vols. 1 and 2. F. D. Hobbs and B. D. Richardson. Pergamon, New York, 1967. vol. 1, 224 pp.; vol. 2, 199 pp. Illus. Paper, \$6. Commonwealth and International Library.

Traité de Biochimie Générale. vol. 3, Les processus biochimiques de synthèse et

de dégradation. pt. 1, Énergétique biochimique et cycles des éléments. M. Javillier et al. Masson, Paris, 1967. 675 pp.

Illus. F. 155.

Traité de Zoologie: Anatomie, Systématique, Biologie. vol. 16, Mammifères. pt. 1, Téguments et squelette. Pierre-P. Grassé. Masson, Paris, 1967. 1170 pp. Illus. F. 255.

Transactions of the Society of Rheology. vol. 10, pt. 2. Raymond R. Myers, Ed. Interscience (Wiley), New York, 1966. 245 pp. Illus. Paper, \$10. Twelve papers.

Transistor Circuit Engineering. Basil L. Cochrun. Macmillan, New York, 1967.

461 pp. Illus. \$13.95.

Transmission of Viruses by the Water Route. Gerald Berg, Ed, Interscience (Wiley), New York, 1967. 502 pp. Illus. \$15. There are 31 papers.

Tropical Pastures. William Davies and C. L. Skidmore, Eds. Faber and Faber, London, 1966. 215 pp. Illus. 50s. Thirteen papers

Tungsten and Its Compound. G. D. Rieck. Pergamon, New York, 1967. 148 pp. Illus. \$7.

Ultrasonic Absorption. An introduction to the theory of sound absorption and dispersion in gases, liquids, and solids. A. B. Bhatia. Oxford Univ. Press, New York, 1967. 441 pp. Illus. \$13.60.

The United States Dispensatory and Physicians' Pharmacology. Arthur Osol, Robertson Pratt, and Mark D. Altschule, Eds. Lippincott, Philadelphia, ed. 26,

1967. 1285 pp. Illus. \$25.

U.S.-Japan Seminar in Polymer Physics (Kyoto, Japan), October 1965. Richard S. Stein and Shigeharu Onogi, Eds. Interscience (Wiley), New York, 1967. 516 pp. Illus. Paper, \$17.50. Journal of Polymer Science, No. 15, pt. C, Polymer Symposia. Thirty-nine papers.

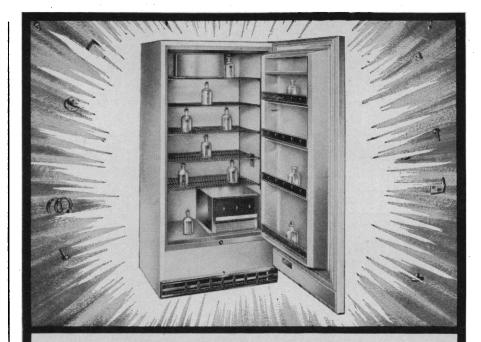
Utilization of Nutrients during Postnatal Development. P. Hahn and O. Koldovsky. Pergamon, New York, 1967. 189 pp. Illus. \$8. International Series of Monographs in Pure and Applied Biology.

Vocabulary of Mechanics in Five Languages: English, German, French, Polish, Russian. vol. 2, group 15, Mechanics of Fluids. A. T. Troskolański, Ed. Wydawnictwa Naukowo-Techniczne, Warsaw; Pergamon, New York, 1967 462 pp. Illus. \$20.

Water in the Service of Man. H. R. Vallentine. Penguin Books, Baltimore, 1967. 224, pp. Illus. Paper, \$1.45.

With Brass and Gas. An illustrated and embellished chronicle of ballooning in mid-nineteenth century America. Munson Baldwin. Beacon Press, Boston, 1967. 251 pp. Illus. \$6.

The World We Live In. Lincoln Barnett and Editorial Staff of *Life*. Golden Press, New York, 1967. 224 pp. Illus. Paper, \$2.45.



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