ments and many common inorganic compounds. It is particularly useful as a source of reference to the many papers in the literature on this subject.

The Characterization of High-Temperature Vapors is appropriately dedicated to the new generation of high-temperature scientists and engineers. It also has much to offer to persons currently in the field. It will undoubtedly serve as a guidepost to physicists, chemists, metallurgists, engineers, ceramists, and others doing research at high temperatures.

A. J. DARNELL

Atomics International, A Division of North American Rockwell Corporation, Canoga Park, California

### **Regulators of Development**

The Evolution of Differentiation. WILLIAM S. BULLOUGH. Academic Press, New York, 1967. viii + 206 pp., illus. \$8.

This unusual and interesting treatment of differentiation emphasizes the importance of the role played by chemical messengers such as nutrient materials, metabolites, inducing stances, and hormones. With data from a broad spectrum of organisms ranging from bacteria to the most complex systems, the theme is carefully developed that differentiation has evolved from the more-or-less reversible, labile state found in microbes and plants to the inflexible, stable state seen in mammals. At all stages of complexity, differentiation is viewed as the outcome of a progressive and selective closure of an originally totipotent genome, through the action of specific chemical messengers which travel within and between cells, activating and repressing genes according to the theory of Jacob and Monod. The thesis is advanced that closure of the genome has become progressively tighter with the progress of evolution, the ultimate stability being represented by systems in which genetic activity has ceased completely and control is exercised at the RNA level. An unconventional approach (and a somewhat awkward terminology) is used in one of the most thought-provoking sections of the book, dealing with tissue homeostasis. A new look at the incompatibility of mitosis and tissue function is offered as the view is developed that cells may differentiate to synthesize either only those enzymes required for mitosis or those which determine a

composite program for aging and function. At this level also, the action of tissue-specific chemical messages (on the relative inhibition of mitotic activity) is considered to be primarily responsible for the balance between the rival forces of cell duplication, function and death.

It is more a comment on the state of the field than a criticism of the presentation to say that this book provides a fascinating example of the consequences of current tendencies to force all explanations in terms of gene regulation. In view of the (laudable) emphasis on chemical messengers which are not made of DNA or from DNA, and do not usually act on DNA, it is somewhat confusing to assume that such messengers exist only for the purpose of regulating genetic activity. This is particularly so in view of the fact that, mechanistically, more is known about their mode of action at nongenic levels, for example, in the activation and inhibition of existing enzymes and as a source of energy and precursor material for synthetic pathways. Thus some very pertinent questions (and conflicting conclusions) are automatically eliminated from consideration. The assumption is made that differentiation essentially involves nothing more than the elaboration of an ancient theme of gene control in bacteria. Although this is very probable as applied to the genetic level of control in differentiation, it hardly does justice to the equally important role of other levels of control. Unlike bacteria, which are susceptible to influence by various exogenous inducers, a differentiating system must furnish its own chemical messengers. The nature and source of the messengers, the control of their synthesis and utilization, and the mechanism of their action at nongenic as well as genic levels must be considered in understanding the evolution of differentiating systems. Soon we must also ask whether the catalytic products of genetic activity are produced in limiting (that is, controlling) amounts, or in excess compared to the other cellular components (such as metabolites) essential to the expression of their activity.

On the whole, this book condenses an impressive amount of information and a variety of viewpoints in a stimulating and interesting manner.

BARBARA E. WRIGHT

Retina Foundation, Boston, Massachusetts

### **Books Received**

Accidents and Homicide. Albert P. Iskrant and Paul V. Joliet. Harvard University Press, Cambridge, Mass., 1968. xviii + 202 pp., illus. \$5. American Public Health Association Vital and Health Statistics Monographs.

Actinomycin. Nature, Formation, and Activities. Selman A. Waksman, Ed. Interscience (Wiley), New York, 1968. x + 231 pp., illus. \$8.95.

The Active Society. A Theory of Societal and Political Processes. Amitai Etzioni. Collier-Macmillan, London; Free Press, New York, 1968. xxvi + 698 pp., illus. \$10.95.

The Admiralty Hydrographic Service 1795–1919. Archibald Day. Her Majesty's Stationery Office, London, 1967 (distributed in the United States by British Information Services, New York). 378 pp., illus. \$18.90.

Advances in Hydroscience. Vol. 4, 1967. Ven Te Chow, Ed. Academic Press, New York, 1967. xvi + 428 pp., illus. \$21.

Advances in Nuclear Science and Technology. Vol. 4. Paul Greebler and Ernest J. Henley, Eds. Academic Press, New York, 1968. xiv + 394 pp., illus. \$18.50.

The Age of Dinosaurs in Northern Arizona. William J. Breed. Illustrated by Barton A. Wright. Museum of Northern Arizona, Flagstaff, 1968. vi + 44 pp. Paper, \$1.

Analytical Gel Permeation Chromatography. American Chemical Society Symposium, Chicago, Sept. 1967. Julian F. Johnson and Roger S. Porter, Eds. Interscience (Wiley), New York, 1968. vi + 344 pp., illus. Paper, \$14. Journal of Polymer Science, part C, Polymer Symposia, No. 21.

The Anharmonic Crystal. Philippe Choquard. Benjamin, New York, 1967. xii + 340 pp., illus. Cloth, \$10; paper, \$5.95. Frontiers in Physics.

Animal Function. Principles and Adaptations. Malcolm S. Gordon, George A. Bartholomew, Alan D. Grinnel, C. Barker Jørgensen, and Fred N. White. Macmillan, New York; Collier-Macmillan, London, 1968. xvi + 560 pp., illus. \$12.95.

Animals in Splendour. E. L. Grant Watson. Horizon Press, New York, 1967. 153 pp. \$4.95.

Annual Review of Medicine. Vol. 19. Arthur C. DeGraff and William P. Creger, Eds. Annual Reviews, Palo Alto, Calif., 1968. viii + 540 pp., illus. \$8.50.

Aspects of Yeast Metabolism. A Guinness Symposium, Dublin. A. K. Mills and Hans Krebs, Eds. Davis, Philadelphia, 1968. xiv + 345 pp., illus. \$14.

An Atlas of Mammalian Chromosomes. Vol. 2. T. C. Hsu and Kurt Benirschke. Springer-Verlag, New York, 1968. Unpaged. Loose-leaf, boxed, \$9.40.

Atomic and Nuclear Chemistry. Vol. 1, Atomic Theory and Structure of the Atom. T. A. H. Peacocke. Pergamon, New York, 1967. xvi + 140 pp., illus. Cloth, \$4.50; paper, \$3. Commonwealth and International Library, Intermediate Chemistry Division.

Australian Rocks, Minerals and Gemstones. R. O. Chalmers. Elsevier, New York, 1968. xvi + 398 pp., illus. \$17.50.

(Continued on page 610)



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9-14. Biodeterioration, 1st intern. symp., Southampton, England. (First Intern. Biodeterioration Symp., 14 Belgrave Sq., London, S.W.1, England)

9-15. International Conv. on Vital Substances, Nutrition, and Civilisation Diseases, Travemunde, Germany. (H. Schmulling, Bemeroder Str. 61, Hannover-Kirchrode)

10-13. French Soc. of Electronic and Radio Engineers, Paris, France. [Societé Française des Electroniciens et Radioelectriciens, 10 Ave. Pierre-Larousse, Malakoff (Seine), France]

10-13. Yeast Protoplasts, 2nd intern. symp., Brno, Czechoslovakia. (A. Svoboda, Dept. of Biology, Medical Faculty, J. E. Purkyne Univ., Brno)

10-14. Internal Medicine, 10th intern. congr., Paris, France. (E. Reezyo, Dept. of Medicine, Inst. for Postgraduate Medical Education, ul. Solec 93, Warsaw 30, Poland)

10-20. International Conf. on General Relativity and Gravitation, 5th, Tiflis, U.S.S.R. (A. Mercier, Inst. de Physique Theoretique de l'University, 3000 Berne, Sidlerstrasse 5, Switzerland, or Acad. of Science, U.S.S.R., Lenin Prospekt, Mos-

12-14. Federation of French Speaking Societies of Gynecology, 22nd, Paris. (Sureau, Maternire Pinard, 74 Ave. Denfert-Rochereau, Paris 14)

15-17. Society of Radiology, Bucharest, Rumania. (I. Caloenescu, Union of Medical Science, Societies of the Socialist Republic of Rumania, 8, Rue Progresul, Bucharest)

15-19. International Congr. of Group Psychotherapy, 4th, Vienna, Austria. (Z. I. Moreno, P.O. Box 311, Beacon, New York

15-19. Audiology, 9th intern. congr., London, England. (R. Hinchcliffe, Inst. of Laryngology and Otology, 330 Gray's Inn Rd., London, W.C.1)

16-18. Conference on Laser Measurements, Warsaw, Poland. (S. Hahn, Komitet Narodowy URSI, Warsaw IPPT, Swietokrzyska 21, Poland)

16-20. Austrian Mathematical Congr., 7th, Linz. (A. Adam, Hochschule fur Sozial-und Wirtschaftswissenschaften, A4045 Linz, Auhof, Austria)

16-21. International Soc. for Fat Research, 9th, Rotterdam, Netherlands. (Unilever Research Labs., P.O. Box 114, Vlaardingen, Netherlands)

17-20. Society of Physical Chemistry, Paris, France. (G. Emschwiller, 10, rue Vauquelin 75, Paris 5)

19-21. International Leprosy Assoc., 9th, London, England. (S. G. Browne, 16

Bridgefield Rd., Sutton, Surrey, England) 20-24. Fouling and Marine Corrosion, 2nd intern. congr., Athens, Greece. (Université Technique Nationale d'Athenes, Laboratoire Chimie-Physique, 42, rue 28 Octobre, Athens)

22-25. American Inst. of Chemical Engineers, Montreal, P.Q., Canada. (Chemical Inst. of Canada, 48 Rideau St., Ottawa 2, Ont.)

22-27. International Committee on Electrochemical Thermodynamics and Kinetics, 19th, Warren, Michigan. (S. E. Beacom, Electrochemistry Dept., Research Labs., General Motors Corp., 12 Mile & Mound Rds., Warren, Michigan 48090)

#### **BOOKS RECEIVED**

(Continued from page 563)

Auto Fleet Management. Hermann Botzow. Wiley, New York, 1968, xvi + 197 pp., illus. \$9.95.

Autoradiographic Techniques. Localization of Radioisotopes in Biological Material. William D. Gude. Prentice-Hall, Englewood Cliffs, N.J., 1968. xiv + 113 pp., illus. Paper, \$3.95. Biological Techniques Series.

Basic Algebraic Systems. An Introduction to Abstract Algebra. Richard Laatsch. McGraw-Hill, New York, 1968. xiv + 224 pp., illus. \$7.95.

Basic Organic Chemistry. Part 2. J. M. Scott, Foresman, Glenview, Ill., 1968. xiv + 295 pp., illus. \$8.75.

Basic Organic Chemistry. Part 2. J. M. Tedder and A. Nechvatal. Wiley, New York, 1967. xii + 466 pp., illus. Paper,

Basic Physics. Kenneth W. Ford. Blaisdell (Ginn), Waltham, Mass., 1968. xxiv + 968 pp., illus. \$11.75. Blaisdell Book in the Pure and Applied Sciences.

The Biochemistry of Memory. With an Inquiry into the Function of the Brain Mucoids. Samuel Bogoch. Oxford University Press, New York, 1968. xii + 254 pp., illus. \$7.50.

The Biogenesis of Mitochondria. D. B. Roodyn and D. Wilkie. Methuen, London, 1968 (distributed in the U.S. by Barnes and Noble, New York). viii + 123 pp., illus. \$4. Methuen's Monographs on Biological Subjects.

**Biology.** Helena Curtis. Worth, New York, 1968. xviii + 854 pp., illus. \$10.75.

A Biology of Lower Invertebrates. W. D. Russell-Hunter. Macmillan, New York; Collier-Macmillan, London, 1968. x + 181 pp., illus. Paper, \$2.95. Current Concepts in Biology.

Boston Studies in the Philosophy of Science. Vol. 3. In Memory of Norwood Russell Hanson. Proceedings of the Boston colloquium, 1964-1966. Robert S. Cohen and Marx W. Wartofsky, Eds. Reidel, Dordrecht-Holland; Humanities Press, New York, 1968. xlx + 489 pp., illus. \$18.50. Synthese Library.

British Miniature Electronic Components Data 1967-68, G. W. A. Drummer and J. Mackenzie Robertson, Eds. Pergamon, New York, 1967. xiv + 1461 pp., illus. \$44.

Calculus. Robert G. Bartle and C. Ionescu Tulcea. Scott, Foresman, Glenview, Ill., 1968. xviii + 718 pp., illus. \$10.95.

Calculus I. Albert A. Blank, with the assistance of Florence L. Elder and Clarence W. Leeds III. Houghton Mifflin, Boston, 1968. xx + 436 pp., illus. \$7.50.

Casebooks in Production Management. Basic Problems, Concepts, and Techniques. Arch R. Dooley, William K. Holstein, James L. McKenney, Richard S. Rosenbloom, C. Wickham Skinner, and Philip H. Thurston. Wiley, New York, ed. 2, 1968. xviii + 738 pp., illus. \$10.95.

Ceramic Processing. Prepared by the Committee on Ceramic Processing. National Academy of Sciences, Washington, D.C., 1968. xiv + 296 pp., illus. \$15. National Academy of Sciences Publication No. 1576.

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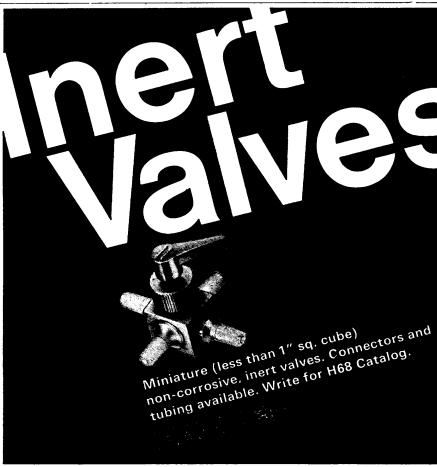
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Chemical Environment in the Aquatic Habitat. Proceedings of an International Biological Programme Symposium, Amsterdam and Nieuwersluis, October 1966. H. L. Golterman and R. S. Clymo, Eds. North-Holland, Amsterdam, 1967. 320 pp., illus. Paper, \$8.40.

Chemical Zoology. Vol. 2, Porifera, Coelenterata, and Platyhelminthes, Marcel Florkin and Bradley T. Scheer, Eds. Academic Press, New York, 1968. xx + 639 pp., illus. \$29.

Chemistry in Liquid Dinitrogen Tetroxide and Sulphur Dioxide. Clifford C. Addison, Walter Karcher, and Horstmar Hecht. Pergamon, New York; Vieweg, Braunschweig, 1968. xvi + 206 pp., illus. \$18. Chemistry in Nonaqueous Ionizing Solvents: A Series of Monographs.

The Chemistry of the Rarer Platinum Metals (Os, Ru, Ir and Rh). W. P. Griffith. Interscience (Wiley), New York, 1967. x + 491 pp., illus. \$16. Interscience Monographs on Chemistry.

Chemistry Simplified. Vol. 1. William E. Caldwell. Barnes and Noble, New York, 1968. vi + 110 pp. Paper, \$2.25. Barnes and Noble Keynotes, No. 707.

Clinical Diabetes Mellitus. John Malins. Eyre and Spottiswoode, London, 1968 (distributed in the U.S. by Barnes and Noble, New York). xxiv + 502 pp., illus.

Cohomology Operations and Applications in Homotopy Theory. Robert E. Mosher and Martin C. Tangora. Harper and Row, New York, 1968. x + 214 pp., illus. \$12.95. Harper's Series in Modern Mathematics.

Colloque sur le Dévonien Inférieur et ses Limites. Rennes, September 1964. Bureau de Recherches Géologiques et Minières, Paris, 1967. 458 pp., illus. Paper, 180 F. Mémoires du Bureau de Recherches Géologiques et Minières, No. 33.

The Commonwealth of Learning. Henry Steele Commager. Harper and Row, New York, 1968. x + 277 pp. \$6.95.

Communication Theory. A. V. Balakrishnan. With contributions by J. W. Carlyle, C. W. Helstrom, W. L. Root, and G. Slomon. McGraw-Hill, New York, 1968. xii + 347 pp., illus. \$15.75. Inter-University Electronics Series, vol. 6.

Comparative Odontology. Bernhard Peyer. Translated from the German and edited by Rainer Zangerl. University of Chicago Press, Chicago, 1968. xvi + 347 pp., illus. \$12.50.

Computational Handbook of Statistics. James L. Bruning and B. L. Kintz. Scott, Foresman, Glenview, Ill., 1968. xiv + 269 pp., illus. \$4.95.

Computer Approximations. John F. Hart et al. Wiley, New York, 1968. xii + 343 pp., illus. \$17.50. SIAM Series in Applied Mathematics.

Computers and Electronic Devices in Psychiatry. Nathan S. Kline and Eugene Laska, Eds. Grune and Stratton, New York, 1968. x + 341 pp., illus. \$13.75.

A Course in Numerical Analysis. H. Melvin Lieberstein. Harper and Row, New York, 1968. xiv + 258 pp., illus. \$14.95. Harper's Series in Modern Mathematics.

Current Algebras and Their Application. B. Renner. Pergamon, New York, 1968. xiv + 177 pp., illus. \$9. International Series of Monographs in Natural Philosophy, vol. 12. Current Topics in Radiation Research. Vol. 4. Michael Ebert and Alma Howard, Eds. North-Holland, Amsterdam; Interscience (Wiley), New York, 1968. x + 430 pp., illus. \$19.

Current Transformers. Their Transient and Steady State Performance. Arthur Wright. Chapman and Hall, London, 1968 (distributed in the U.S. by Barnes and Noble, New York). xiv + 224 pp., illus. \$8. Modern Electrical Studies.

The Cycle of Erosion in Different Climates. Pierre Birot. Translated from the French edition (Rio de Janerio, 1960) by C. Ian Jackson and Keith M. Clayton. University of California Press, Berkeley, 1968, 144 pp., illus, \$5.50.

1968. 144 pp., illus. \$5.50.

Deep-Sea Photography. John Brackett
Hersey, Ed. Johns Hopkins Press, Baltimore, 1967. 310 pp., illus. \$17.50. Johns
Hopkins Oceanographic Studies, No. 3.

The Demography of Tropical Africa. William Brass, Ansley J. Coale, Paul Demeny, Don F. Heisel, Frank Lorimer, Anatole Romaniuk, and Etienne van de Walle. Princeton University Press, Princeton, N.J., 1968. xxx + 539 pp., illus. \$15.

Dendritic Cells of Human Skin. Dendritic Cells in Epidermis and Their Related Cells in Dermis. Cytology, Physiology and Pathology with Particular Reference to Melanin. G. Niebauer. Karger, Basel, 1968 (distributed in the U.S. by Phiebig, White Plains, N.Y.). xiii + 144 pp., illus. \$8.90. Experimental Biology and Medicine, vol. 2.

**Deprivation and Compensatory Education:** A Consideration. Helen E. Rees. Houghton Mifflin, Boston, 1968. xiv + 300 pp. \$5.50.

Deviancy. The Psychology of Being Different. Jonathan L. Freedman and Anthony N. Doob. Academic Press, New York, 1968. viii + 158 pp., illus. \$6.75. Social Psychology Series.

Diapirism and Diapirs. A Symposium. Including papers presented at the 50th Annual Meeting of the Association of Petroleum Geologists, New Orleans, April 1965, and some others. Jules Braunstein and Gerald D. O'Brien, Eds. American Association of Petroleum Geologists, Tulsa, Okla., 1968. viii + 444 pp., illus. \$16. Memoir 8.

Dielectric Relaxation. Vera V. Daniel. Academic Press, New York, 1967. xiv + 281 pp., illus. \$13.

A Different Kind of Country. Raymond F. Dasmann. Macmillan, New York; Collier-Macmillan, London, 1968. x + 276 pp., illus. \$5.95.

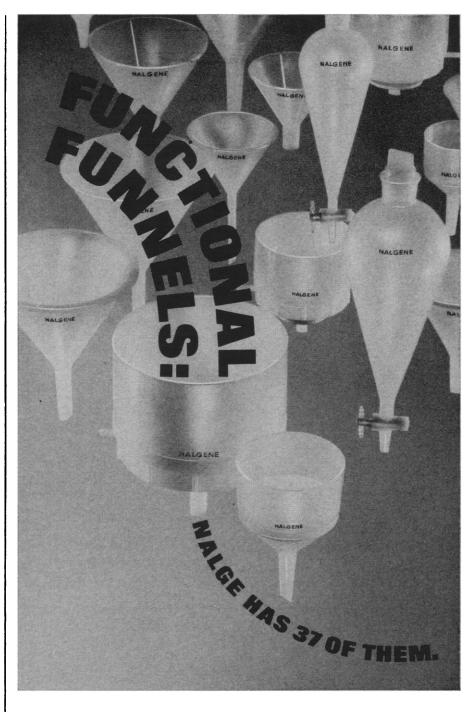
Differential Topology. Andrew Wallace. Benjamin, New York, 1968. xiv + 130 pp., illus. Cloth, \$9.50; paper, \$3.95. Mathematics Monograph Series.

The Digital Logic Handbook. Flip Chip Modules, 1968 edition. Digital Equipment Corp., Maynard, Mass., 1968. x + 486 pp., illus. Paper, distributed free of charge.

Discovery of the Elements. Mary Elvira Weeks. Completely revised and new material added by Henry M. Leicester. Illustrations collected by F. B. Dains. Journal of Chemical Education, Easton, Pa., ed. 7, 1968. x + 896 pp. \$12.50.

The Eccentric Ark. The Curious World of Frank Buckland. G. H. O. Burgess. Horizon Press, New York, 1968. xii + 242 pp., illus. \$6.50.

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gions. A Study in Evolution. M. J. Dunbar. Prentice-Hall, Englewood Cliffs, N.J., 1968. viii + 119 pp., illus. \$4.95. Concepts of Modern Biology Series.

Ein Nein zu Einstein. Bausteine zur Einheitlichen Elektrik 2. Karl Dürr. Schritt, Bern, ed. 3, 1967. 72 pp., illus. Paper, 12.90 F.

Electron Beam Therapy. Proceedings of the 2nd Annual San Francisco Cancer Symposium, 1966. Karger, Basel, 1968 (distributed in the U.S. by Phiebig, White Plains, N.Y.). viii + 267 pp., illus. \$15.50. Frontiers of Radiation Therapy and Oncology, vol. 2.

Elements of Mathematics. Bruce E. Meserve and Max A. Sobel. Prentice-Hall, Englewood Cliffs, N.J., 1968. xii + 303 pp., illus. \$7.95.

Elements of Mineralogy. Brian Mason and L. G. Berry. Freeman, San Francisco, ed. 2, 1968. x + 550 pp., illus. \$9.50. Books in Geology.

Elements of Zoology. Paul B. Weisz. McGraw-Hill, New York, 1968. xvi + 486 pp., illus. \$8.95.

Elsevier's Dictionary of Pharmaceutical Science and Techniques. In Five Languages: English, French, Italian, Spanish, German. Vol. 1, Pharmaceutical Technology. Compiled and arranged on an English alphabetical basis by A. Sliosberg. Elsevier, New York, 1968. xii + 686 pp. \$30.

The Encounter between Christianity and Science. Richard H. Bube, Ed. Eerdmans, Grand Rapids, Mich., 1968. 318 pp. \$5.95.

Engineering Plasticity. Papers for a conference, Cambridge, England, March 1968. J. Heyman and F. A. Leckie, Eds. Cambridge University Press, Cambridge, Mass., 1968. viii + 706 pp., illus. \$22.50.

Die Erhohung der Fruchtbarkeit der Sandboden. Vortrage der Internationalen Koordinierenden Arbeitstagung in Budapest, 1965. M. Kozak, S. Egerszegi, F. Hepp, and I. Lang, Eds. Akademiai Kiado, Budapest, 1967. 446 pp., illus. Ethics, Politics, and Social Research.

Ethics, Politics, and Social Research. Gideon Sjoberg, Ed. Schenkman, Cambridge, Mass., 1967. xviii + 358 pp. \$8.95.

Experimental Magnetochemistry. Nonmetallic Magnetic Materials. Michael M. Schieber. North-Holland, Amsterdam; Interscience (Wiley), New York, 1967. xxiv + 572 pp., illus. \$28. Monographs on Selected Topics in Solid State Physics, vol. 8.

Experimental Organic Chemistry. Ralph L. Dannley and James D. Crum. Macmillan, New York; Collier-Macmillan, London, 1968. x + 341 pp., illus. \$7.25.

Experimental Physiology. Experiments in Cellular, General, and Plant Physiology. Arnold Dunn and Joseph Arditti. Holt, Rinehart and Winston, New York, 1968. xiv + 312 pp., illus. Paper, \$7.95.

Fluorescent Antibody Methods. Morris Goldman. Academic Press, New York, 1968. xviii + 303 pp., illus. \$13.50. Functions of the Adrenal Cortex. Vol.

Functions of the Adrenal Cortex. Vol. 1. Kenneth W. McKerns, Ed. Appleton-Century-Crofts, New York, 1968. xvi + 643 pp., illus. \$21. Biochemical Endocrinology Series.

Fundamental Aspects of Fiber Reinforced Plastic Compoites. R. T. Schwartz and H. S. Schwartz, Eds. Interscience (Wiley), New York, 1968. xiv + 284 pp., illus. \$12.75. Polymer Engineering and Technology Series.

Galilée. Aspects de sa vie et de son oeuvre. Maurice Clavelin et al., Eds. Presses Universitaires de France, Paris, 1968. x + 382 pp., illus. Paper, 24 F. Centre International de Synthèse: Histoire des Sciences.

Gemini. A Personal Account of Man's Venture into Space. Virgil "Gus" Grissom. Macmillan, New York; Collier-Macmillan, London, 1968. xii + 212 pp., illus. \$5.95.

Geology Simplified. Richard M. Pearl. Barnes and Noble, New York, 1968. vi + 89 pp., illus. Paper, \$2.25. Barnes and Noble Keynotes, No. 712.

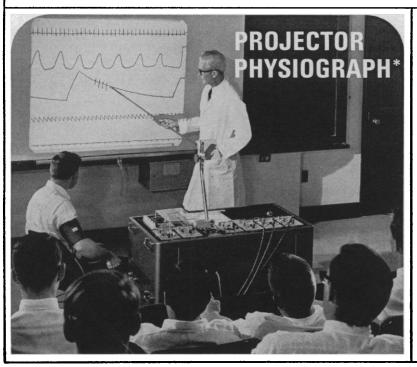
German Miniature Electronic Components and Assemblies Data 1967-68. G. W. A. Dummer, J. Mackenzie Robertson, and Paul Dietrich, Eds. Pergamon, New York, 1968. vi + 988 pp., illus. \$37.

God, the Atom, and the Universe. James Reid. Zondervan, Grand Rapids, Mich., 1968. 240 pp., illus. \$4.95.

Group Counseling and Psychotherapy with Adolescents. Beryce W. MacLennan and Naomi Felsenfeld. Columbia University Press, New York, 1968. x + 198 pp. \$6.

Gynäkologische Cytologie. P. Stoll, J. Jaeger, and G. Dallenbach-Hellweg. Springer-Verlag, New York, 1968. xii + 307 pp., illus. \$22.

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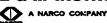
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Handbook for Automatic Computation. F. L. Bauer, A. S. Householder, F. W. J. Olver, H. Rutishauser, K. Samelson, and E. Stiefel, Eds. Vol. 1, part a, Description of ALGOL 60. Heinz Rutishauser. Springer-Verlag, New York, 1967. xii + 323 pp., illus. \$14.50. Die Grundlehren der mathematischen Wissenschaften, vol.

Handbook for Automatic Computation. F. L. Bauer, A. S. Householder, F. W. J. Olver, H. Rutishauser, K. Samelson, and E. Stiefel, Eds. Vol. 1, part b, Translation of ALGOL 60. A. A. Grau, U. Hill, and H. Langmaack. Springer-Verlag, New York, 1967. x + 397 pp., illus. \$16. Die Grundlehern der mathematischen Wissenschaften, vol. 137.

The Heart of the Earth. O. M. Phillips. Freeman, Cooper, San Francisco, 1968. 236 pp., illus. \$4.50.

Henry E. Sigerist. Autobiographical Writings. Selected and translated by Nora Sigerist Beeson. McGill University Press, Montreal, 1966. xiv + 247 pp. \$5.75. High Energy Astrophysics. Vols. 1 and

2. Lectures delivered at Les Houches during the 1966 session of the Summer School of Theoretical Physics, with a grant from NATO. C. DeWitt, E. Schatzman, and P. Véron, Eds. Gordon and Breach, New York, 1967. Vol. 1, xiv + 250 pp., illus., \$12.50; vol. 2, xii + 332 pp., illus., \$12.50.

High-Energy Nuclear Reactions in Astrophysics. A Collection of Articles. B. S. P. Shen, Ed. Benjamin, New York, 1967. + 281 pp., illus. \$9.75.

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Hormone in Genese und Therapie des Mammacarcinoms. Panel discussion, Berlin and Jena, Sept.-Oct. 1965. H. Gummel and H. Kraatz, Eds. Akademie-Verlag,

Berlin, 1967. vi + 135 pp., illus.

How to Qualify as a "Biologist" in the Universities of Europe. Jean Leclercq. Council for Cultural Co-operation of the Council of Europe, Strasbourg, 1967. 240

Human Growth. Body Composition, Cell Growth, Energy, and Intelligence. Donald B. Cheek, with the assistance of collaborating investigators. Lea and Febiger, Philadelphia, 1968. xxx + 781 pp., illus. \$25.

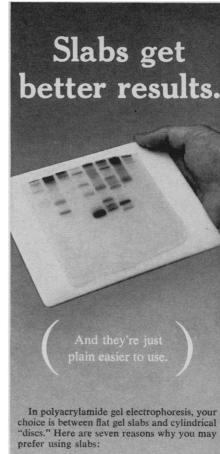
Hydrogen Bonding in Solids. Methods of Molecular Structure Determination. Walter C. Hamilton and James A. Ibers. Benjamin, New York, 1968. xvi + 284 pp., illus. \$13.95. Frontiers in Chemistry.

Hydrogen-The Carrier of Life. An Approach to Atomic Biology. Mieczyslaw Taube. Translated from the Polish edition (Warsaw, 1965) by B. Jankowski. Nuclear Energy Information Center, Warsaw, 1967. 144 pp., illus. Review Report No. 25.

Hypnosis. Anatol Milechnin. Translated from the Spanish edition (Buenos Aires, 1961) by Galina Solovey. Wright, Bristol, 1967 (distributed in the U.S. by Williams and Wilkins, Baltimore). xii + 255 pp. \$10.

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Intellectuals Today. Problems in a Changing Society. T. R. Fyvel. Schocken, New York, 1968. 240 pp. \$6.95.

Internationale Vortragstagung über Grenzflächenaktive Stoffe. In two parts. Originalbeiträge der Tagung in Berlin, March 1966. xxiv + 953 pp., illus. Akademie-Verlag, Berlin, 1967. Abhandlungen der Detuschen Akademie der Wissenschaften zu Berlin, No. 3.

Introduction to Algebra for College Students. William A. Rutledge and Simon Green. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1968. x + 310 pp., illus. \$7.50.

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An Introduction to the Meaning and Structure of Physics. Leon N. Cooper. Harper and Row, New York, 1968. xiv + 745 pp., illus. \$13.95.

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Journal of Anatomy. Index to the First 100 Years, 1866–1966. Compiled by Doreen Blake and Ruth E. M. Bowden. Cambridge University Press, Cambridge, Mass., 1968. xiv + 450 pp. \$37.50.

Mass., 1968. xiv + 450 pp. \$37.50.

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Das Kallikrein-Kinin-System und Seine Inhibitoren. Emil K. Frey, Heinrich Kraut, and Eugen Werle. Enke, Stuttgart, ed. 2, 1968. xii + 290 pp., illus. DM 65.

Die Klinischen Eponyme. Medizinische Eigennamenbegriffe in Klinik und Praxis. Bernfried Leiber and Theodor Olbert, with the collaboration of H. Naijoks, G. Naumann, A. Obel, and G. Schiebe. Urban and Schwarzenberg, Munich, 1968. xii + 456 pp., illus. DM 59.

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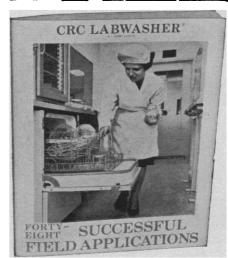
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**LDH Isoënzymen bij Nieraandoeningen Experimentele en Klinische Studie.** With Summaries in French and English. S. Ringoir. Uitgaven, Brussels, 1967. 363 pp., illus.

Lectures in Theoretical Physics. Wesley E. Brittin, Asim O. Barut, and Marcel Guenin, Eds. Vol. 9A, Mathematical Methods of Theoretical Physics (x + 400 pp., illus.); vol. 9B, High Energy and Particle Physics (xii + 436 pp., illus.); vol. 9C, Kinetic Theory (xii + 791 pp., illus.). Cloth, \$19.50 per volume; paper, \$8.95 per volume. Gordon and Breach, New York, 1967.

Libel and Academic Freedom. A Lawsuit Against Political Extremists. Arnold M. Rose. University of Minnesota Press, Minneapolis, 1968. xii + 287 pp., illus. \$7.95.

El Libro del Cancer: Descubrimiento, Contagio, Curacion. Ligdano Chávez. Mundial, Managua, Nicaragua, 1967. 264 pp.

pp.
Linear Algebra. R. R. Stoll and E. T. Wong. Academic Press, New York, 1968. x + 326 pp., illus. \$8.50.

Mitochondrial Structure and Compartmentation. Proceedings of the Round Table Discussion, Polignano a Mare, Italy, May 1966. E. Quagliariello, S. Papa, E. C. Slater, and J. M. Tager, Eds. Adriatica, Bari, Italy, 1967. 473 pp., illus.

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Mound Builders of Ancient America. The Archaeology of a Myth. Robert Silverberg. New York Graphic Society, Greenwich, Conn., 1968. xiv + 369 pp., illus. \$8.95.

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Neurophysiological Basis of Normal

Neurophysiological Basis of Normal and Abnormal Motor Activities. Proceedings of the 3rd symposium of the Parkinson's Disease Information and Research Center of Columbia University, New York, Nov. 1966. Melvin D. Yahr and Dominick P. Purpura, Eds. Raven Press, Hewlett, N.Y., 1967. xii + 451 pp., illus. \$25.

A Neuropsychiatric and Genetical Investigation of Acute Intermittent Porphria. Lennart Wettenberg. Svenska, Norstedts, Sweden, 1967. 87 pp., illus.

Particle Size Measurement. Terence Allen. Chapman and Hall, London, 1968 (distributed in the U.S. by Barnes and Noble, New York). xvi + 248 pp., illus. \$8.

Permanence/Durability of the Book. Strength and Other Characteristics of Book Papers, 1800–1899. Barrow Research Laboratory, Richmond, Va., 1967. 116 pp. Physical Methods in Advanced Inorganic Chemistry. H. A. O. Hill and P. Day, Eds. Interscience (Wiley), New York, 1968. xii + 627 pp., illus. \$16.50.

Physical Science. Donald S. Allen and Richard J. Ordway. Van Nostrand, Princeton, N.J., ed. 2, 1968. xii + 872 pp., illus. \$10.95.

Physico-chemical Aspects of Drug Action. Vol. 7. Proceedings of the 3rd International Pharmacological Meeting, São Paulo, July 1966. E. J. Ariëns, Ed. Pergamon, New York, 1968. x + 386 pp., illus. \$14.

**Physics.** Principles and Insights. Ira M. Freeman. McGraw-Hill, New York, 1968. x + 729 pp., illus. \$10.75.

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New York, 1968. xvi + 624 pp., illus.
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The Physics of Large Deformation of Crystalline Solids. James F. Bell. Springer-Verlag, New York, 1968. x + 253 pp., illus. \$12. Springer Tracts in Natural Philosophy, vol. 14.

**Physiology.** Laboratory Manual. W. W. Tuttle, Byron A. Schottelius, and John D. Thomson. Mosby, St. Louis, ed. 2, 1968. x + 257 pp., illus. Paper, \$4.95.

The Poisoned Ivy. William Surface. Coward-McCann, New York, 1968. 223 pp. \$5.

Polderlands. Paul Wagret. Translated from the French edition (Paris, 1959). Methuen, London, 1968 (distributed in the U.S. by Barnes and Noble, New York). xvi + 288 pp., illus. \$10.

Proceedings of the First International Conference on Forensic Activation Analysis. San Diego, Calif., Sept. 1966. V. P. Guinn, Ed. Gulf General Atomic, San Diego, 1967. x + 314 pp., illus. Paper, \$7.

Précis de Physique Theorique Moderne. Vol. 2, Physique quantique théorique; 1, Mécanique quantique fondamentale (Mécanique ondulatoire et matricielle). Théo Kahan. Presses Universitaires de France, Paris, 1968. xii + 711 pp., illus. Paper, 70 F.

A Programmed Introduction to Microbiology. Stewart M. Brooks, Mosby, St. Louis, Mo. 1968. viii + 100 pp., illus., spiral binding. \$4.25.

**Protides of the Biological Fluids.** Proceedings of the 15th colloquium, Bruges, Sept. 1967. H. Peeters, Ed. Elsevier, New York, 1968. xii + 626 pp., illus. \$34.50.

Psychiatry and Art. Proceedings of the 4th International Colloquium of Phychopathology of Expression, Washington, D.C., April 1966. Irene Jakab, Ed. Karger, Basel, 1968 (distributed in the U.S. by Phiebig, White Plains, N.Y.). xii + 211 pp., illus. Paper, \$14.20.

Psychiatry in the Communist World. Ari Kiev, Ed. Science House, New York, 1968. x + 276 pp. \$10. Psychological Functioning in the Nor-

Psychological Functioning in the Normal Aging and Senile Aged. Report of an international colloquium, Semmering, Austria, June 1966. Sheila S. Chown and K. F. Riegel, Eds. Karger, Basel, 1968 (distributed in the U.S. by Phiebig, White Plains, N.Y.). x + 153 pp., illus. \$7.90.

Quantitative Chemical Analysis. Gilbert H. Ayres. Harper and Row, New

York, ed. 2, 1968. x + 710 pp., illus. \$11.95.

Questions about the Oceans. Harold W. Dubach and Robert W. Taber. U.S. Naval Oceanographic Office, Washington, D.C., 1968 (available from Superintendent of Documents, Washington, D.C.). xii + 121 pp., illus. Paper, 55¢. National Oceanographic Data Center, Publication G-13.

The Rays Are Not Coloured. Essays on the Science of Vision and Colour. W. D. Wright, Elsevier, New York, 1968. x + 154 pp., illus. \$5.95.

Relation of Geology and Trace Elements to Nutrition. Abstracts and papers based on presentations at a symposium at the annual meeting of the Geological Society of America, New York, Nov. 1963. Helen L. Cannon and David F. Davidson, Eds. Geological Society of America, New York, 1967. vi + 64 pp., illus. Paper, \$4.25.

Séminaire Bourbaki. Volume 1966/1967, Exposés 313-330. Benjamin, New York, 1968. Unpaged, \$16.

Society's Children. A Study of Resentiment in the Secondary School. Carl Nordstrom, Edgar Z. Friedenberg, and Hilary A. Gold. Random House, New York,

1968. xii + 209 pp. \$4.95.

Soil Animals. Friedrich Schaller. University of Michigan Press, Ann Arbor, 1968. Translated from the German edition (Berlin, 1962) by A. J. Pomerang. 144 pp., illus. Cloth, \$5; paper, \$1.95. Ann Arbor Science Library.

Sophisticated Signals and the Uncertainty Principle in Radar. D. E. Vakman. Translated from the Russian by K. N. Trirogoff. Ernest Jacobs, Ed. Springer-Verlag, New York, 1968. xii + 260 pp., illus. \$14.80. Applied Physics and Engineering, vol. 4.

Space Research VIII. Proceedings of open meetings of working groups of the 10th Plenary meeting of the Committee on Space Research, London, July 1967. A. P. Mitra, L. G. Jacchia, and W. S. Newman, Eds. North-Holland, Amsterdam, 1968. xvi + 1096 pp., illus. \$38.

Space Systems Technology. Regis D. Heitchue, Jr., Ed. Reinhold, New York, 1968. x + 300 pp., illus. \$15.

Traitement des Equations Différentielles sur Calculateurs Electroniques. Jean Girerd and Walter J. Karplus. Gauthier-Villars, Paris, 1968. 559 pp., illus. 68 F.

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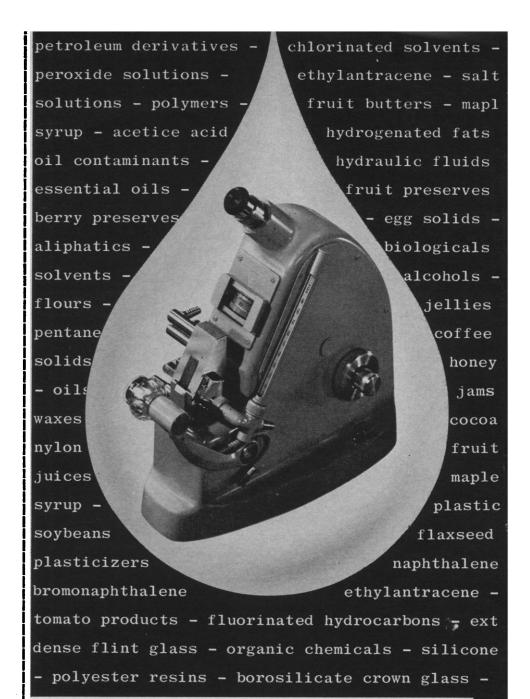
Uncertainty, in Nature and Communication. H. B. Rantzen. Hutchinson, London, 1968. 152 pp., illus. 50s.

The United Nations and United States Security Policy. Ruth B. Russell. Brookings Institution, Washington, D.C., 1968. xiv + 514 pp. \$10.

Vacuum System Design. N. T. M. Dennis and T. A. Heppell. Chapman and Hall, London, 1968 (distributed in the U.S. by Barnes and Noble, New York). xii + 224 pp., illus. \$8.

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