Rakoff catalogues the numerous disturbances in gynecological endocrinology that are associated with psychological problems, and Russell and Beardwood analyze anorexia nervosa. These are good papers which describe the problems well and leave the reader tantalized by thoughts about basic mechanisms that have so far not been approachable because of inadequate methods.

Levi expands his studies of the increases of catecholamines caused by anxiety to investigate the changes in some physiological processes that are influenced by catecholamines. Free fatty acids and triglycerides are increased by anxiety pari passu with catecholamines, and this rise is blocked by nicotinic acid. In subjects exposed for three days to simulated battle conditions, proteinbound iodine and erythrocyte sedimentation rate increased and serum iron decreased (presumably Levi has evidence that this does not occur simply because of deprivation of sleep). These findings and those of Reichlin, who summarizes considerable evidence that growth hormone may also be increased by psychological stimuli, suggest possible pathways by which emotional stress could be involved in the etiology of certain diseases.

The book is important to the investigator and of interest to the casual reader. It should stimulate a lot of research.

CHARLES W. LLOYD Worcester Foundation for Experimental Biology, Shrewsbury, Massachusetts

Energetics

Transfer and Storage of Energy by Molecules. Vol. 1, Electronic Energy. GEORGE M. BURNETT and ALASTAIR M. NORTH, Eds. Wiley-Interscience, New York, 1969. xvi + 240 pp., illus. \$11.95.

It is impossible to think of any process in nature in which the energy does not undergo significant changes as the system passes from its initial to its final state. This is obviously true for systems in which a chemical change occurs as the result of absorption of light or ionizing radiation, the passage of an electrical current, or the application of heat, or when any of the reverse of these processes occurs, for example, in a chemiluminescent or exothermic reaction. Although much precise information is available about the distribu-

tions of energy in the initial and final states and about the connections between the overall rates of change and variables such as temperature, emitted or absorbed radiation intensity, or current flow, singularly little is known about the detailed mechanisms of the interconversions of energy between any two of the following forms: translational, vibrational, rotational, electronic, and coulombic. Yet we are conscious that phenomena of fundamental importance in biology, such as nerve conduction, vision, and photosynthesis, just as much as important chemical processes, can be fully understood only after all the factors regulating the rate of transfer of energy between various modes or between molecules have been identified. The realization of this fact has clearly prompted Burnett and North to think that it is time to bring together a series of articles by authorities summarizing all of significance that is known about the storage and transfer of energy by molecules in all states of aggregation.

The volume under review is concerned with electronic energy, and it is to be followed by four other volumes dealing respectively with vibrational energy, rotational energy, solid state systems, and biological systems. Objection to this "grand design" cannot reasonably be raised on conceptual grounds, but the reviewer doubts whether the theoretical framework yet exists to enable the significant relationships to be discerned and to be ordered into a coherent pattern. The articles in this first volume illustrate this point. Each is good in its own way, but there is, for example, little in common between the mechanism of energy transfer from a fast charged particle to the molecules of the medium through which it is passing, dealt with in chapter 4, and electronic excitation produced by shock waves, which forms the major part of chapter 2. Even in chapter 1, where Cundall has striven manfully to give shape and form to his topic "Electronic and vibrational transfer in gas phase systems," the theories are so ill developed that often the best that can be done to systematize the information is to cite approximate empirical correlations linking very limited sets of data. Chapter 3, on the "Chemistry of electronically excited states of organic molecules," is the most coherent.

This then is one of those tantalizing but useful books: tantalizing because the unifying theories are not yet ap-

parent and one is inclined to cry with Ovid "rudis indigestaque moles," and useful both as a compendium of current knowledge and as providing, by its very incoherence, a spur to the imaginative theorists and experimentalists who will make possible the much-needed major conceptual advances.

[Volume 2 of the work (432 pp., \$18.50) is now available—ED.]

F. S. DAINTON University of Nottingham,

Nottingham, England

Books Received

Advances in Cardiac Pacemakers. A conference, New York, November 1968. Seymour Furman, Ed. New York Academy of Sciences, New York, 1969. Illus. Paper, \$30. Annals of the New York Academy of Sciences, Vol. 167, Art. 2, pp. 515–1075.

Advances in Solid State Physics. Plenary Lectures of the Professional Group of the German Physical Society: "Semiconductor Physics," and Invited Papers of the European Meeting of the Institute of Electrical and Electronic Engineers: "Semiconductor Device Research," Munich, March 1969. O. Madelung, Ed. Pergamon, New York; Viewag, Braunschweig, 1969. viii + 392 pp., illus. \$17.50. Festkörperprobleme IX.

Alfred Nobel. The Loneliest Millionaire. Michael Evlanoff and Marjorie Fluor. Commentaries by Arnold O. Beckman and Henry T. Mudd. Ritchie, Los Angeles, 1969. xvi + 336 pp., illus. \$10.

American City Planning Since 1890. A History Commemorating the Fiftieth Anniversary of the American Institute of Planners. Mel Scott. University of California Press, Berkeley, 1969. xxiv + 748 pp., illus. \$17.50. California Studies in Urbanization and Environmental Design. Anatomy of an Expedition. Henry W.

Menard, McGraw-Hill, New York, 1969. xii + 260 pp. + plates. \$6.95.

Animal Waste Management. A conference, Syracuse, N.Y., January 1969. New York State College of Agriculture, Cornell University, Ithaca, 1969. viii + 416 pp., illus. Paper, \$10.50.

Annual Review of Information Science and Technology. Vol. 4. Carlos A. Cuadra and Ann W. Luke, Eds. Encyclopaedia Britannica, Chicago, 1969. x + 550 pp. \$16.

Applied Optics and Optical Engineering. Rudolf Kingslake, Ed. Vol. 5, Optical Instruments: Part 2. Academic Press, New York, 1969. xvi + 384 pp., illus. \$17.

Archaeology in Sarawak. Cheng Te-K'un. Heffer, Cambridge, England; University of Toronto Press, Toronto, 1969. xii + 34 pp. + plates. \$4.35.

Asthme. A meeting, Reims, France, May 1965. Bernard N. Halpern, J. G. Scadding and J. M. Dubois de Montrey-

(Continued on page 171)

SCIENCE, VOL. 168

BOOKS RECEIVED

(Continued from page 110)

naud. Hermann, Paris, 1969. 176 pp., illus. Paper, 27 F. Actualites Scientifiques Industrielles, No. 1329.

Atlas of Medical Mycology. Emma Sadler Moss and Albert Louis McQuown. Williams and Wilkins, Baltimore, ed. 3, 1969. x + 366 pp., illus. \$14. Biology of Populations. The Biological

Biology of Populations. The Biological Basis of Public Health. Brenda K. Sladen and Frederik B. Bang, Eds. Elsevier, New York, 1969. xxii + 450 pp., illus. \$17.50.

Birds That Stopped Flying. Elizabeth S. Austin. Random House, New York, 1969. viii + 84 pp., illus. \$2.95.

The Bobwhite Quail. Its Life and Management. Walter Rosene. Rutgers University Press, New Brunswick, N.J., 1969. xxviii + 422 pp., illus. \$20.

The Bomb That Failed. Ronald Clark. Morrow, New York, 1969. 256 pp. \$5.95.

Clinical Information Processing by Computer. An Essay and Selected Readings. Benjamin Kleinmuntz. Holt, Rinehart and Winston, New York, 1969. xiv + 402 pp., illus. Paper, \$5.95.

Collected Papers of the Institute of Physical and Chemical Research, 1968. Rikagaku Kenkyusho, Yamato-Machi, Saitama, Japan, 1968. xxii + 1440 pp., illus.

Colloquium on Inflammatory Reactions and Tumors in Invertebrates. Versailles, France, December 1967. C. Vago and O. Flandre. Institut National de la Recherche Agronomique, Paris, 1969. 132 pp. + plates. Paper, 40 F. Annales de Zoologie: Écologie Animale, vol. 1. Comparative Operating Systems. An

Comparative Operating Systems. An Association for Computing Machinery Symposium. F. L. Jamison, Chairman. Brandon/Systems Press, Princeton, N.J., 1969. xii + 128 pp., illus. Paper, \$7.50.

Computers in Biomedical Research. Vol. 3. Ralph W. Stacy and Bruce D. Waxman, Eds. Academic Press, New York, 1969. xxii + 290 pp., illus. \$14.

Deuxième Congrès de l'Union Phytopathologique Méditerranéenne. Avignon-Antibes, France, September 1969. Institut National de la Recherche Agronomique, Paris, 1969. 472 pp., illus. Paper, 90 F. Annales de Phythopathologie, Vol. 1.

Dictionary of Development Economics. Economic Terminology in Three Languages—English, French, German. Traute Scharf and Marc Balin. Elsevier, New York, 1969. xvi + 268 pp. \$12.50.

Difficulties in the Path of Psychoanalysis. A Confrontation of Past with Present Viewpoints. Delivered as the 18th Freud Anniversary Lecture, New York, April 1968. Anna Freud. International Universities Press, New York, 1969. 84 pp. \$4.

Diseases of the Cultivated Plants of the Southwest. Rubert Burley Streets, Sr. University of Arizona Press, Tucson, 1969. xviii + 390 pp., illus. \$9.50.

Ecological Aspects of the Species Concept. A modal morphology which has modality maintained through the selective action of environmental limiting and modifying factors is the classical and functional species. Christopher J. Durden. Published by the author, 2505 Ashdale, Austin,

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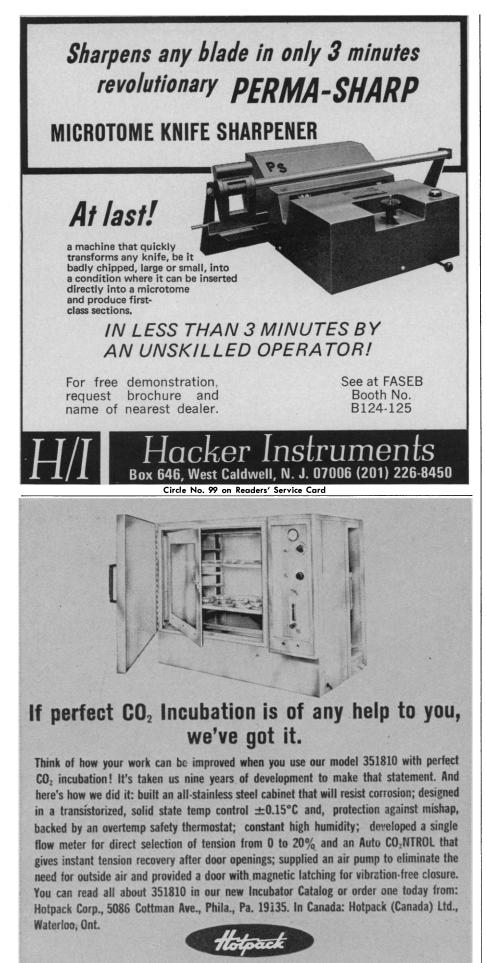
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Texas, 1969. 16 pp., illus. Paper, 75ϕ . Armadillo Papers, No. 1.

Electronics for the Physicist. Cyril Delaney. Penguin, Baltimore, 1969. 258 pp., illus. Paper, \$3.50. Penguin Education X53, Penguin Library of Physical Sciences: Physics.

Élements de Bibliographie de l'Histoire des Sciences et des Techniques. François Russo. Hermann, Paris, ed. 2, 1969. xvi + 216 pp., illus. 54 F.

Énumération des Plantes du Canada. Bernard Boivin. University Laval, Quebec. Paper. Extracts from Naturaliste Canadien, vol. 93 (1966) and vol. 94 (1967). Provancheria 6.

Equilibrium. A Chemistry of Solutions. Thomas R. Blackburn. Holt, Rinehart and Winston, New York, 1969. xii + 228 pp., illus. Cloth, \$6.50; paper, \$3.50.

Essential Relativity. Special, General, and Cosmological. Wolfgang Rindler. Van Nostrand Reinhold, New York, 1969. xiv + 322 pp., illus. \$11.50. Ethylenimine and Other Aziridines.

Ethylenimine and Other Aziridines. Chemistry and Applications. O. C. Dermer and G. E. Ham. Academic Press, New York, 1969. xiv + 594 pp., illus. \$27.

L'expansion des fonds océaniques et la dérive des continents. Jean Coulomb. Presses Universitaires de France, Paris, 1969. 224 pp., illus. Paper, 32 F. La Science Vivante.

First Symposium on Rolamite. Donald D. Eulert, Ed. University of New Mexico Press, Albuquerque, 1969. xii + 180 pp., illus. Paper, \$10. Flora of the Prairie Provinces. A

Flora of the Prairie Provinces. A Handbook to the Flora of the Provinces of Manitoba, Saskatchewan and Alberta. Bernard Boivin. Department of Agriculture, University Laval, Quebec. Part 1, Pteroids, Ferns, Conifers and Woody Dicopsids (reprinted from *Phytologia*, vol. 15, pp. 121–159, pp. 329–446, and vol. 16, pp. 1–47, 1967). Part 2, Digitatae, Dimerae, Liberae (reprinted from *Phytologia*, vols. 16–18, 1968–69). Provancheria 2 and 3.

The Flowering World of "Chinese" Wilson. Daniel J. Foley, Ed. Macmillan, New York; Collier-Macmillan, London, 1969. xvi + 336 pp., illus. \$8.95.

Freezing and Drying of Microorganisms. A conference, Sapporo, Japan, October 1968. Tokio Nei, Ed. University of Tokyo Press, Tokyo; University Park Press, Baltimore, 1969. viii + 192 pp., illus. \$15.

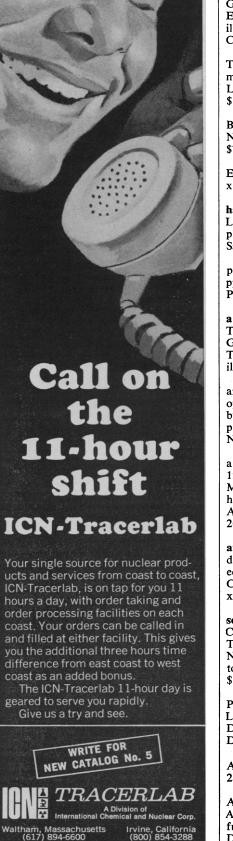
Fundamental Physical Forces. Raymond A. Wohlrabe. Helen Hale, Ed. Consultant. Illustrated by Edward A. De-Ville. Lippincott, Philadelphia, 1969. 128 pp. \$4.50. Introducing Modern Science.

The Future Academic Community. Continuity and Change. Annual meeting of the American Council on Education, October 1968. John Caffrey, Ed. American Council on Education, Washington, D.C., 1969. xiv + 330 pp., illus. \$7.

Gall Midges of Economic Importance. W. Nijveldt. Vol. 8, Gall Midges—Miscellaneous (Zoophagous, Fungivorous, and Those That Attack Weeds). Identification of Gall Midges. Lockwood, London, 1969. 224 pp. + plates. 45s. Agricultural and Horticultural Series.

Hans Berger on the Electroencephalo-

SCIENCE, VOL. 168



gram of Man. The Fourteen Original Reports on the Human Electroencephalogram. Translated from the original German and edited by Pierre Gloor. Elsevier, New York, 1969. xii + 350 pp., illus. \$31.50. Electroencephalography and Clinical Neurophysiology, Suppl. 28.

Herm's Medical Entomology. Maurice T. James and Robert F. Harwood. Macmillan, New York; Collier-Macmillan, London, ed. 6, 1969. xii + 484 pp., illus. \$15.

Introduction to Organic Chemistry. D. B. Bigley and R. J. E. Talbot. Elsevier, New York, 1969. x + 406 pp., illus. \$7.50.

An Introduction to Plant Diseases. B. E. J. Wheeler. Wiley, New York, 1969. x + 374 pp., illus. \$12.75.

Introduction to Statistics for the Behavioral Sciences. Curtis D. Hardyck and Lewis F. Petrinovich. Saunders, Philadelphia, 1969. x + 310 pp., illus. \$7.50. Saunders Books in Psychology. Learning and Activation. R. A. Cham-

Learning and Activation. R. A. Champion. Wiley, New York, 1969. xii + 124 pp., illus. Paper, \$3.25. Basic Topics in Psychology.

Lectures on the Theory of Functions of a Complex Variable. Vol. 2, Geometric Theory. Giovanni Sansone and Johan Gerretsen. Wolters-Noordhoff, Groningen, The Netherlands, 1969. xii + 700 pp., illus. \$25.75.

The Life of Sea Islands. N. J. Berrill and Michael Berrill. Published in cooperation with World Book Encyclopedia by McGraw-Hill, New York, 1969. 232 pp., illus. \$4.95. Our Living World of Nature.

Lithium in Psychiatry. Proceedings of a symposium, Lidingö, Sweden, March 1968. Nils Diding, Jan-Otto Ottosson, and Mogens Schou, Eds. Munksgaard, Copenhagen, 1969. 108 pp., illus. Paper, Kr 36. Acta Psychiatrica Scandinavica, Suppl. 207.

The Logical Structure of the World, and Pseudoproblems in Philosophy. Rudolf Carnap. Translated from the German editions by Rolf A. George. University of California Press, Berkeley, ed. 2, 1969. xxvi + 364 pp. Paper, \$2.65.

Long-Range Planning for Urban Research and Development. Technological Considerations. Committee on Urban Technology, National Research Council. National Academy of Sciences, Washington, D.C., 1969. viii + 94 pp., illus. Paper, \$3.50. NAS Publication 1729.

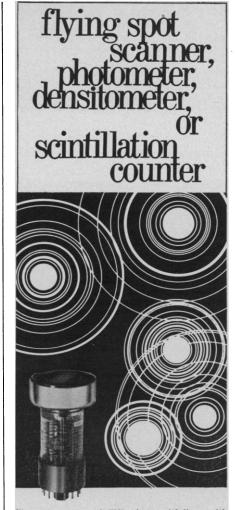
Making Federalism Work. A Study of Program Coordination at the Community Level. James L. Sundquist and David W. Davis. Brookings Institution, Washington, D.C., 1969. x + 294 pp. \$6.95.

Man and His Environment. Don R. Arthur. Elsevier, New York, 1969. vi + 218 pp., illus. \$8.50.

Mechanik II. Festigkeitslehre. Karl-August Reckling. Vieweg, Braunschweig; Akademische Verlagsgesellschaft, Frankfurt, 1969. viii + 220 pp., illus. Paper, DM 9.80. Uni-text.

Mental Health and Social Policy. David Mechanic. Prentice-Hall, Englewood Cliffs, N.J., 1969. xviii + 174 pp. Cloth, \$5.95; paper, \$2.50. Prentice-Hall Series in Social Policy.

Meteorological Data Catalogue. J. R.



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Nuklearmedizin Szintigraphische Diagnostik. Ulrich Feine and Karl zum Winkel. With contributions by G. Breitling, E. Jahns, and R. Wolf. Thieme Verlag, Stuttgart, 1969 (U.S. distributor, Intercontinental Medical Books, New York). xii + 432 pp., illus. DM 120.

Organic Reaction Mechanisms, 1968. An Annual Survey Covering the Literature Dated December 1967 through November 1968. B. Capon and C. W. Rees, Eds. Interscience (Wiley), New York, 1969. xii + 588 pp., illus. \$24.95. People in Pain. Mark Zborowski. Jos-

People in Pain. Mark Zborowski. Jossey-Bass, San Francisco, 1969. xx + 276 pp. \$8.50. Jossey-Bass Behavioral Science Series.

Pharmacological Facts and Figures. F. Lembeck and K.-Fr. Sewing. Translated from the German edition (Berlin, 1966) by H. Heller and D. R. Ferguson. Springer-Verlag, New York, 1969. viii + 112 pp., illus. Paper, \$3. Heidelberg Science Library, vol. 9.

Physics without Einstein. Harold Aspden. Sabberton, Southampton, England, 1969. xiv + 224 pp., illus. Cloth, \$7; paper, \$3.50.

Picture Processing by Computer. Azriel Rosenfeld. Academic Press, New York, 1969. x + 198 pp., illus. \$11.50. Computer Science and Applied Mathematics.

Plastic Foams. The Physics and Chemistry of Product Performance and Process Technology. Calvin J. Benning. Wiley-Interscience, New York, 1969. Vol. 1, Chemistry and Physics of Foam Formation (xiv + 674 pp., illus.); vol. 2, Structure Properties, and Applications (xiv + 370 pp., illus.). \$75 the set. Polymer Engineering and Technology.

Preventing the Spread of Nuclear Weapons. First Pugwash Symposium, London, April 1968. C. F. Barnaby, Ed. Humanities Press, New York, 1969. xiv + 374 pp., illus. \$9.50. Pugwash Monograph 1.

Proceedings of the Second Annual Stereoscan Scanning Electron Microscope Colloquium. Chicago, April 1969. Engis Equipment Company, Morton Grove, Ill., 1969. iv + 168 pp., illus. \$10.

Programming—Algol. D. J. Malcolme-Lawes. Pergamon, New York, 1969. vi + 110 pp., illus. Cloth, \$4; paper, \$2.25. Commonwealth and International Library.

Progress in Chemical Toxicology. Vol. 4. Abraham Stolman, Ed. Academic Press, New York, 1969. xii + 428 pp., illus. \$19.

Radiation and Propagation of Electromagnetic Waves. George Tyras. Academic Press, New York, 1969. xvi + 368 pp., illus. \$17.50. Electrical Science Series.

Recent Advances in Phytochemistry. Vol. 2, Proceedings of the 7th Annual Symposium of the Phytochemical Society of North America, Madison, Wis., August 1967. Margaret K. Seikel and V. C. Runeckles, Eds. Appleton-Century-Crofts, New York, 1969. xii + 180 pp., illus. \$9.75.

Rechnender Raum. Konrad Zuse. Vieweg, Braunschweig, 1969. viii + 72 pp., illus. Paper, DM 16.80. Schriften zur Datenverarbeitung, vol. 1.



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The Right to Treatment. A Symposium. Donald S. Burris, Ed. Springer, New York, 1969. x + 230 pp. Paper, \$3.75. Reprinted from the Georgetown Law Journal, vol. 57, March 1969.

Scene of Change. A Lifetime in American Science. Warren Weaver. Scribner, New York, 1970. xii + 228 pp. + plates. \$7.50. Scribners Scientific Memoirs.

Science and Technology in the Industrial Revolution. A. E. Musson and Eric Robinson. University of Toronto Press, Toronto, 1969. viii + 536 pp. \$9.50.

Scientific and Technical Abbreviations. Holman, Washington, D.C., 1969. iv + 36 pp. Paper, \$2.

The Search for Help. A Study of the Retarded Child in the Community. Jerry Jacobs. Brunner/Mazel, New York, 1969. xiv + 138 pp. \$5.95.

Second Conference on Psychophysiological Aspects of Cancer. New York, May 1968. Claus Bahne Bahnson, Ed. New York Academy of Sciences, New York, 1969. Illus. Paper, \$20. Annals of the New York Academy of Sciences, Vol. 164, Art. 2, pp. 307-634.

Second Conference on the Problems of Cooley's Anemia. New York, September 1968. Harold Fink, Ed. New York Academy of Sciences, New York, 1969. Illus. Paper, \$20. Annals of the New York Academy of Sciences, Vol. 165, Art. 1, pp. 1–508.

Sociology. Neil J. Smelser and James A. Davis, Eds. Prentice-Hall, Englewood Cliffs, N.J., 1969. xii + 180 pp., illus. \$5.95. Behavioral and Social Sciences Survey Series.

La Statique. André Ricci. Presses Universitaires de France, Paris, 1969. 128 pp., illus. Paper. "Que Sais-Je?", No. 1353.

Statistical Power Analysis for the Behavioral Sciences. Jacob Cohen. Academic Press, New York, 1969. xvi + 416 pp. \$13.50.

A Strategic Approach to Urban Research and Development. Social and Behavioral Science Considerations. Report of the Committee on Social and Behavioral Urban Research, National Research Council, to the Department of Housing and Urban Development. National Academy of Sciences, Washington, D.C., 1969. viii + 104 pp. Paper, \$3.50. NAS Publication 1728.

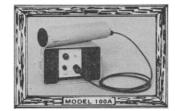
Stratigraphy and Palaeontology. Essays in Honour of Dorothy Hill, K. S. W. Campbell, Ed. Australian National University Press, Canberra, 1969. xxiv + 392 pp., illus. \$A17.50.

Studies on the Blood Serum of the Euryhaline Cyprinodont Fish, Fundulus heteroclitus, Adapted to Fresh or to Salt Water. Grace E. Pickford, F. Blake Grant, and Bruce L. Umminger. Archon, Hamden, Conn., 1969. Paper. Transactions, vol. 43, October 1969, pp. 25–70.

Switching in Semiconductor Diodes. Yurii R. Nosov. Translated from the Russian edition (Moscow, 1968) by Albin Tybulewicz. Plenum, New York, 1969. xviii + 240 pp., illus. \$19.50. Monographs in Semiconductor Physics, vol. 4.

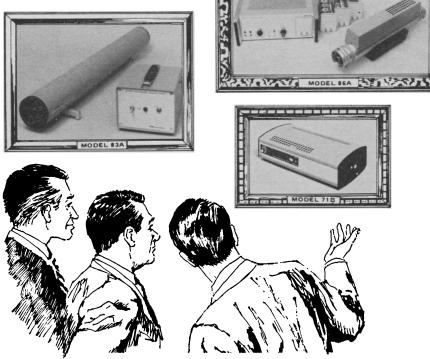
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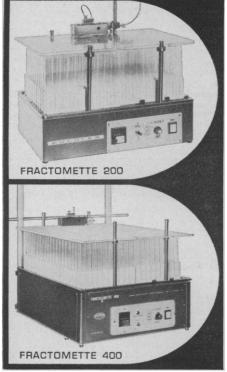
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Press, Cambridge, Mass., 1969. xvi + 110 pp., illus. \$6.95. Techniques et applications de l'ultra-

vide. F. Juillet and F. van Nieuwenhuyze. Masson, Paris, 1969. viii + 204 pp., illus. Paper, 54 F. Monographies du centre d'actualisation scientifique et technique, No. 5.

Ternary Diamond-Like Semiconductors. Lev I. Berger and Vitalii D. Prochukhan. Translated from the Russian edition (Moscow, 1968) by Albin Tybulewicz. Consultants Bureau (Plenum), New York, 1969. viii + 116 pp., illus. Paper, \$15.

Thermal Physics. Charles Kittel. Wiley, New York, 1969. xiv + 418 pp., illus. \$10.95.

Thin-Layer Chromatography. A Laboratory Handbook. Egon Stahl, Ed. Translated from the second German edition (Berlin, 1967) by M. R. F. Ashworth. Springer-Verlag, New York, 1969. xxiv + 1044 pp. + plates. \$32.

Towards a Better Use of the Ocean. Contemporary Legal Problems in Ocean Development. W. T. Burke. Comments and Recommendations by an international symposium, Stockholm, June 1968. Almqvist and Wiksell, Stockholm; Humanities Press, New York; Duckworth, London, 1969. 232 pp. \$9.50. SIPRI Monograph.

A Treatise on the Line Complex. C. M. Jessop. Chelsea, New York, 1969. xvi + 368 pp., illus. \$7.95. Reprint of the 1903 edition.

The 21st Century: The Control of Life. Fred Warshofsky. Viking, New York, 1969. x + 182 pp., illus. \$6.95.

Uncertainty, in Nature and Communication. H. B. Rantzen. Humanities Press, New York; Hutchinson, London, 1968. 152 pp. + plates. \$7.50.

Urgent Research in Social Anthropology. Proceedings of a seminar, Rashtrapati Nivas, Simla, India, July 1968. Behari L. Abbi and Satish Saberwal, Eds. Indian Institute of Advanced Study, Simla, 1969. viii + 236 pp. \$11. Transactions of Indian Institute of Advanced Study, vol. 10.

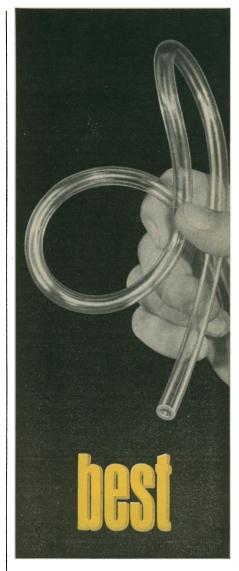
Veillon/Nobel Medical Dictionary. Revised and enlarged by Albert Nobel. Springer-Verlag, New York; Huber, Bern, ed. 5, 1969. xxii + 1330 pp. \$32.

Weather and Climate. Seymour Simon. Illustrated by John Polgreen. Random House, New York, 1969. viii + 136 pp. \$3.50. Random House Science Library.

Workbook to Accompany Introduction to Statistics for the Behavioral Sciences. Curtis D. Hardyck and Lewis F. Petrinovich. Saunders, Philadelphia, 1969. vi + 122 pp., illus. Paper, \$3.75. Saunders Books in Psychology.

X-Ray Spectrochemical Analysis. L. S. Birks. Interscience (Wiley), New York, ed. 2, 1969. xvi + 144 pp., illus. \$9.95. Chemical Analysis, vol. 11.

Yearbook of Physical Anthropology 1967. Santiago Genovés T., Gabriel W Lasker, and Jack H. Prost, Eds. Published by the American Association of Physical Anthropologists in cooperation with Seccion de Antropologia, Instituto de Investigaciones Históricas, Universidad Nacional Autónoma de México, and Instituto Nacional de Antropología e Historia, Córdoba, México, 1969. iv + 306 pp., illus. Paper, \$4.50. Yearbook Series, vol. 15.



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