

comed but which her reader, well provided with an index, finds wearisome in its reiteration—that of saying “as we shall see later,” or “which I shall discuss in another connection,” or some similar variant. Whereas these may have whetted the appetite of her audience, to her reader their frequent use is a bit wearing.

Those who know Miss Nicolson's work already will welcome this book, as will all lovers of Pepys' *Diary*. Scholars will find useful not only her footnote record of her research but also her occasional suggestion about where additional work is needed to do justice to some hitherto neglected phase or person in that lively period. Scientists should enjoy reading about the difficulties and the endeavors of their forerunners in the development of the new science. May Miss Nicolson long continue to delight us in further studies with her wit and her scholarship.

DOROTHY STIMSON

*Goucher College,
Baltimore, Maryland*

Electron Microscopy

In the spring of 1964 a symposium on quantitative electron microscopy was held at the Armed Forces Institute of Pathology, Washington, D.C. As a result, the participants wrote 50 articles that were published in *Laboratory Investigation* [14, pp. 739 to 1340 (1965)]. The same articles form pages 1 to 602 of this book, **Quantitative Electron Microscopy** (Williams and Wilkins, Baltimore, 1965. 615 pp., \$12.50), edited by Gunter F. Bahr and Elmar H. Zeitler; I wonder if once around wasn't quite enough? I am not particularly plagued by this offering, some parts of which are thorough, interesting, and well done, or combinations thereof, but by the general concept, “Let's have a symposium! Bring your chapter.”

My dyspepsia is real and warranted, having been fed a potpourri called Physics of Image Formation (11 articles), Quantitative Evaluation of Electron Micrographs (15 articles), Chemical Information from Electron Micrographs (4 articles), Negative Staining (3 articles), Adverse Effects of the Electron Beam Limiting Interpretation and Evaluation of Electron Micrography (9 articles), Effects of the Preparation Procedure on the Appearance

of the Object in Electron Micrographs (7 articles), and Photography in Electron Microscopy (2 articles).

The quality of the offerings is quite different, but there is just about a chapter for everybody including the morphologist who, by this book, is being made “aware that the information he receives from his pictures is largely dependent on the technical aspects of electron microscopy.” What the morphologist obviously needs is a bit of the plasma concept, some plural scattering theory, an equal part of dielectric constant, and eight aberration coefficients that can be reduced to a form

$$z = -R + \frac{x^2}{2R}(1 - \frac{C_a}{R}) + \frac{y^2}{2R}(1 + \frac{C_a}{R}) + (\frac{1}{8R^3} + \frac{C_s}{4R^4})(x^2 + y^2)^2$$

which “contains only 2 parameters—and not the six other degrees of freedom. . . .” The trouble is that if you can derive plural scattering mathematically, you don't know what a cytosome is. Perhaps the physicist should read Trump and Ericson's excellent chapter on fixation of biological material.

The purpose of the symposium (and of this book) was to define the state of quantitative techniques in electron microscopy. The readers can easily determine the state and the fact that the book is misnamed. You can aggregate and count particles, determine magnification, statistically analyze size distributions, shadow cast, be concerned with contrast or dry mass, or attempt rather primitively to obtain quantitative data from qualitative, largely two-dimensional micrographs. Even though we consider the book as a whole and accept the fact that each author is serious in his efforts, the volume doesn't hold together intellectually. Luckily, the reader can pay his money or take his choice.

RUSSELL J. BARNETT

*Yale University School of Medicine,
New Haven, Connecticut*

Biochemistry

During the past decade interest in clinical enzymology has accelerated greatly. In fact it has almost become predictable that any enzyme present in one or more tissues will be searched for and, if found, studied in the serum. Although only several enzyme determinations, such as amylase and the phos-

phatases, are routinely available in most hospital laboratories, well over two score enzymes of clinical interest have been described. Therefore, a book like **Practical Clinical Enzymology** (Van Nostrand, Princeton, N.J., 1965. 363 pp., \$12.50), by J. King, is a valuable reference source for workers who are interested in setting up a particular enzyme method and for individuals who wish to review the literature concerning the clinical usefulness of a particular enzyme determination.

The book contains three chapters (the first three) which discuss in clear and concise language basic information concerning the nature, kinetics, and measurement of enzyme activity. The chapters concerning individual enzymes are divided according to the enzyme classification recommended by the Commission on Enzymes of the International Union of Biochemistry. Detailed assay procedures for 31 enzymes are described. Each of these is preceded by a description of the chemistry of the enzyme reaction and is followed by a review of the clinical uses of the enzyme assay. The book concludes with a good discussion of methods used in the study of isoenzymes and an appendix that provides a description of the preparation of most of the commonly used buffers. The references are complete, and the index is adequate. Some may not agree with the methods chosen by the author for some enzyme assays—for example, the use of phenyl phosphate for the determination of acid phosphatase—or with the complete omission of automated methods. This book is recommended to all workers who are responsible for the performance of clinical enzyme assays.

MORTON K. SCHWARTZ

*Division of Biochemistry,
Sloan-Kettering Institute, New York*

New Books

Biological and Medical Sciences

Absorption Spectra of Minor Bases: Their Nucleosides, Nucleotides, and Selected Oligoribonucleotides. Tat'yana Vladimirovna Venkstern and Aleksandr Aleksandrovich Baev. Translated from the Russian edition (Moscow, 1965). Plenum Press Data Division (Consultants Bureau), New York, 1965. 94 pp. Illus. \$10.50.

Advances in Biological and Medical Physics. vol. 10. John H. Lawrence and

(Continued on page 1581)

NEW BOOKS

(Continued from page 1523)

John W. Gofman, Eds. Academic Press, New York, 1965. 432 pp. Illus. \$15.50. Six papers: "The effects of ionizing radiation on the nervous system" by H. Gangloff and O. Hug; "Use of short-lived nuclides in medical research" by Rune Söremark; "Biological effects of laser radiation" by Samuel Fine and Edmund Klein; "Tracer techniques for the study of bone metabolism in man" by Göran C. H. Bauer; "Elastic reservoir theories of the human circulation with applications to clinical medicine and to computer analysis of the circulation" by Freeman W. Cope; and "Implantable cardiac pacemakers" by George J. Haupt and Newton C. Birkhead.

Advances in Cancer Research. vol. 9. Alexander Haddow and Sidney Weinhouse, Eds. Academic Press, New York, 1965. 440 pp. Illus. \$16. Five papers: "Urinary enzymes and their diagnostic value in human cancer" by Richard Stambaugh and Sidney Weinhouse; "The relation of the immune reaction to cancer" by Louis V. Caso; "Amino acid transport in tumor cells" by R. M. Johnstone and P. G. Scholefield; "Studies on the development, biochemistry, and biology of experimental hepatomas" by Harold P. Morris; and "Biochemistry of normal and leukemic leucocytes, thrombocytes, and bone marrow cells" by I. F. Seitz.

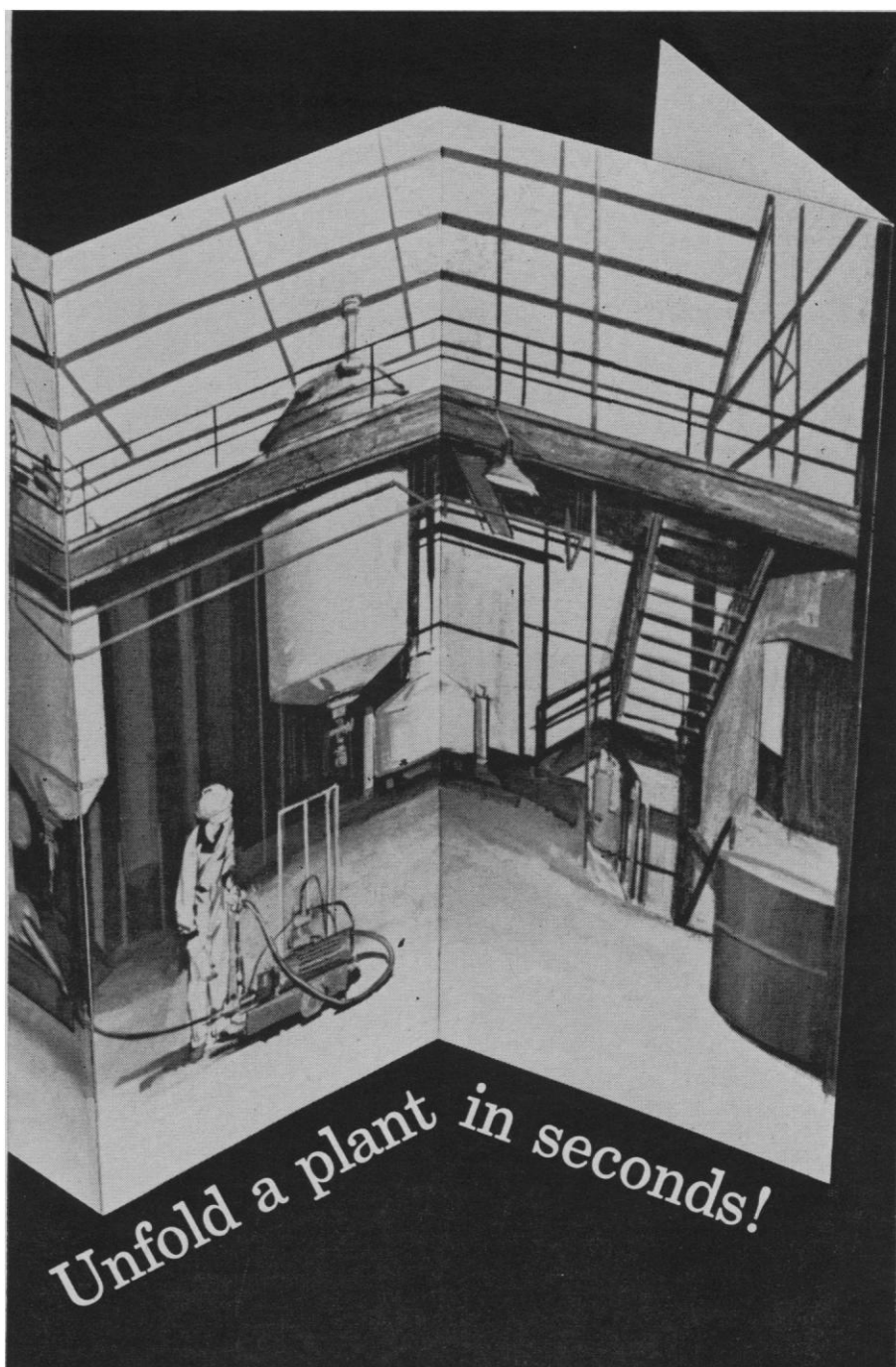
Advances in Food Research. vol. 14. C. O. Chichester, E. M. Mrak, and G. F. Stewart, Eds. Academic Press, New York, 1965. 472 pp. Illus. \$16. Five papers: "Techniques for sensory evaluation of food odors" by Herbert Stone, Rose Marie Pangborn, and C. S. Ough; "Methods of meat texture measurement viewed from the background of factors affecting tenderness" by Alina Surmacka Szczesniak and Kathryn Weiss Torgeson; "Chemistry of nonenzymic Browning II" by T. M. Reynolds; "Unimolecular thermal transformations of organic compounds under food processing conditions" by Jack W. Ralls; and "Theory and practice of hard-surface cleaning" by Walter G. Jennings.

Advances in Genetics. vol. 13. E. W. Caspari and J. M. Thoday, Eds. Academic Press, New York, 1965. 388 pp. Illus. \$15. Seven papers: "Cytoplasmic pollen sterility in corn" by Donald N. Duvick; "Genetic variation in chromosome pairing" by Ralph Riley and C. N. Law; "Evolutionary significance of phenotypic plasticity in plants" by A. D. Bradshaw; "The premeiotic stages of spermatogenesis" by Aloha Hannah-Alava; "The function of the y-chromosome in man, animals, and plants" by K. R. Dronamraju; "Mammalian pigment genetics" by Morris Foster; and "The complex locus R in *Mormoniella vitripennis* (Walker)" by Anna R. Whiting.

An Atlas of Fine Structure: The Cell, Its Organelles and Inclusions. Don W. Fawcett. Saunders, Philadelphia, 1966. 456 pp. Illus. \$11.

Changing Human Behavior. John Mann. Scribner, New York, 1965. 249 pp. \$5.95.

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eases. Charles M. Nice. Thomas, Springfield, Ill., 1966. 215 pp. Illus. \$10.75.

Computers in Biomedical Research. vol. 2. Ralph W. Stacy and Bruce D. Waxman, Eds. Academic Press, New York, 1965. 383 pp. Illus. \$14. Fourteen papers: "Analog-digital conversion systems" by Josiah Macy, Jr.; "A description of the LINC" by W. A. Clark and C. E. Molnar; "Special purpose digital computers in biology" by Jerome R. Cox, Jr.; "A special purpose analog computer for biochemical research" by Joseph J. Higgins; "Systems programs to accommodate biomedical research" by Robert H. Brunelle; "Programs as theories of higher mental processes" by Allen Newell and Herbert A. Simon; "Compartmental analysis in kinetics" by Mones Berman; "Simulation of ecological systems" by David Garfinkel; "Computer simulation of atrial fibrillation" by Gordon K. Moe; "Some computer techniques of value for study of circulation" by Homer R. Warner; "Computations of respiratory mechanical parameters" by Ralph W. Stacy and Richard M. Peters; "Hospital automation via computer time-sharing" by Jordan J. Baruch; "Computer analysis of psychopharmacological data" by Roland R. Bonato; and "Computer analysis of psychological and psychiatric data" by Harvey F. Dingman. This volume, as well as volume 1, was reviewed by J. Lederberg in *Science* 150, 1576 (1965).

A Correlative Study Guide for Neuroanatomy. James L. Hall and Albert O. Humbertson, Jr. Harper and Row, New York, 1966. 159 pp. Illus. Paper, \$3.95.

Diagnostic Methods in Clinical Virology. N. R. Grist, Constance A. C. Ross, Eleanor J. Bell, and E. J. Stott. Davis, Philadelphia, 1966. 139 pp. \$5.

Dyshormonal Tumors: The Theory of Prophylaxis and Treatment. Nikolai Ivanovich Lazarev. Translated from the Russian edition (Moscow, 1963) by Basil Haigh. Consultants Bureau, New York, 1966. 146 pp. Illus. Paper, \$17.50.

Flora of Turkey and the East Aegean Islands. vol. 1. P. H. Davis, Ed. Edinburgh Univ. Press, Edinburgh, Scotland; Aldine, Chicago, 1965. 579 pp. Illus. \$27.50.

Fundamentals of Phytomorphology. A. D. J. Meeuse. Ronald, New York, 1966. 243 pp. Illus. \$10.

Genetic Complementation. J. R. S. Fincham. Benjamin, New York, 1966. 157 pp. Illus. \$8.75. Microbial and Molecular Biology Series, edited by Bernard D. Davis.

A Handbook for the Identification of Insects of Medical Importance. John Smart. British Museum (Natural History), London, ed. 4, 1965. 340 pp. Illus. Plates. £3.

A Handbook of Systematic Botany. Subhash Chandra Datta. Asia Publishing House; Taplinger, New York, 1966. 451 pp. Illus. \$9.50.

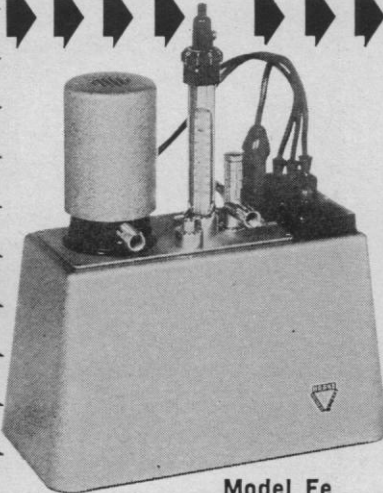
Histology. Roy O. Greep, Ed. McGraw-Hill, New York, ed. 2, 1966. 924 pp. Illus. \$19.50.

Insight vs. Desensitization in Psychotherapy: An Experiment in Anxiety Reduction. Gordon L. Paul. Stanford Univ. Press, Stanford, Calif., 1966. 160 pp. Illus. \$5.

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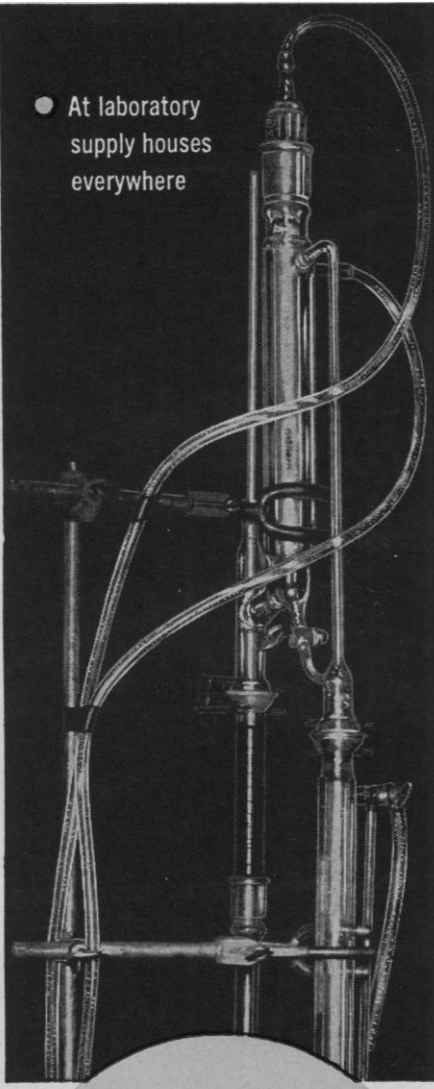
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Integrated Principles of Zoology. Cleveland P. Hickman. Mosby, St. Louis, ed. 3, 1966. 979 pp. Illus. \$8.50.

Ionizing Radiation: Neural Function and Behavior. Donald J. Kimeldorf and Edward L. Hunt. Academic Press, New York, 1965. 343 pp. Illus. \$10. American Inst. of Biological Sciences and U.S. Atomic Energy Commission Monograph Series on Radiation Biology.

Laboratory Manual for Plant Anatomy. Richard A. Popham. Mosby, St. Louis, 1966. 236 pp. Illus. Paper, \$4.95.

Macromolecules and Behavior. John Gaito, Ed. Appleton-Century-Crofts (Meredith), New York, 1966. 207 pp. Illus. \$8. Ten papers: "Macromolecules and the electrical activity of nerve cells" by D. Agin; "Axoplasmic flow in neurons" by Sidney Ochs; "Nucleic acid changes during behavioral events" by Leonid Z. Pevzner; "Brain RNA: Some information on its nature and metabolism as revealed by studies during experimentally induced convulsions and in response to sensory stimulation" by G. P. Talwar, B. K. Goel, S. P. Chopra, and B. D'Monte; "Macromolecules and brain function" by John Gaito; "Autoradiographic examination of behaviorally induced changes in the protein and nucleic acid metabolism of the brain" by J. Altman; "RNA and memory" by D. Ewen Cameron, V. A. Kral, L. Solyom, S. Sved, B. Wainrib, C. Beaulieu, and H. Enesco; "Antibody formation and immunological memory" by Niels K. Jerne; "Molecular biological approaches to the study of memory" by James Bonner; "Some dimensions of remembering: Steps toward a neuropsychological model of memory" by Karl H. Pribram, and an introduction by John Gaito.

Manuel de Biologie Générale, à l'usage des Travaux Pratiques. vol. 1, *La Cellule*. Gauthier-Villars, Paris, 1965. 110 pp. Illus. Paper, F. 22.

Matrix Algebra for the Biological Sciences (Including Applications in Statistics). S. R. Searle. Wiley, New York, 1966. 308 pp. Illus. \$9.95. Series on Quantitative Methods for Biologists and Medical Scientists, edited by Wilfred J. Dixon.

Die menschliche Glatze im Altersformwandel der behaarten Kopfhaut: Morphologische Studie. Klaus Goerttler and Peter Gördel. Thieme, Stuttgart, Germany, 1965. 56 pp. Illus. Paper, DM. 23.

Methods of Serological Research. J. B. Kwapinski. Wiley, New York, 1966. 540 pp. Illus. \$18.50.

Processes of Organic Evolution. G. Ledyard Stebbins. Prentice-Hall, Englewood Cliffs, N.J., 1966. 205 pp. Illus. Paper, \$2.50. Concepts of Modern Biology Series, edited by William D. McElroy and Carl P. Swanson.

Prognosis: A Guide to the Study and Practice of Clinical Medicine. Leslie A. Osborn. Thomas, Springfield, Ill., 1965. 296 pp. Illus. \$10.

Programed Genetics. vol. 3, *Extension of the Theory*. Chester A. Lawson and Mary Alice Burmester. Heath, Boston, 1966. 375 pp. Illus. Paper, \$4.95.

Recent Developments in Vision Research. Milton A. Whitcomb, Ed. National Acad. of Sciences-National Re-

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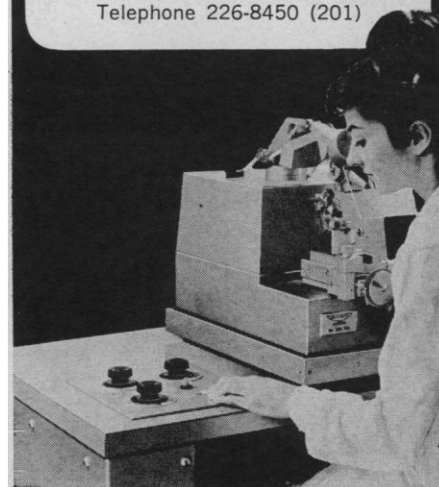
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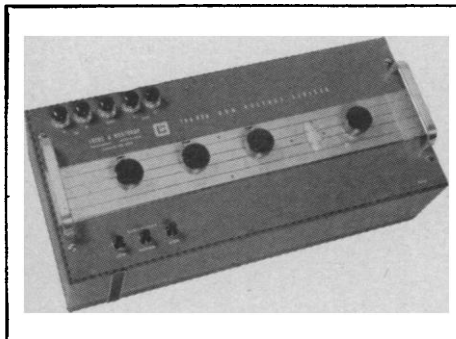
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search Council, Washington, D.C., 1966. 231 pp. Illus. Paper, \$4. Fourteen papers: Some Recent Advances in the Study of Physiological Reflex Mechanisms in Vision (4 papers); Some Recent Advances in Instrumentation and Procedures in Vision Research (4 papers); The Effects of Drugs on Vision (6 papers).

A Synopsis of the Siphonophora. A. K. Totton. British Museum (Natural History), London, 1965. 320 pp. Illus. Plates. £11.

Textbook of Veterinary Clinical Parasitology. vol. 1, *Helminths*. E. J. L. Soulsby. Davis, Philadelphia, 1965. 1152 pp. Illus. \$35.

The Theory and Practice of Public Health. W. Hobson, Ed. Oxford Univ. Press, New York, ed. 2, 1965. 415 pp. Illus. \$16. Thirty-eight papers.

Economics and the Social Sciences

Adaptive Processes in Economic Systems. Roy E. Murphy, Jr. Academic Press, New York, 1965. 225 pp. Illus. \$9.50. Mathematics in Science and Engineering, vol. 20, edited by R. Bellman.

The Chandalar Kutchin. Robert A. McKennan. Arctic Inst. of North America, Montreal, Canada, 1965. 156 pp. Illus. Paper, \$4.

Class, Kinship, and Power in an Ecuadorian Town: The Negroes of San Lorenzo. Norman E. Whitten, Jr. Stanford Univ. Press, Stanford, Calif., 1965. 248 pp. Illus. \$6.75.

The Computer Challenge: To Urban Planners and State Administrators. Harry H. Fite. Spartan, Washington, D.C., 1965. 152 pp. \$6.25. American Univ. Technology of Management Series, vol. 2, edited by Paul W. Howerton.

Culture and Society. George Peter Murdock. Univ. of Pittsburgh Press, Pittsburgh, Pa., 1965. 388 pp. \$7. Twenty-four essays on the following topics: Anthropology and its sister sciences (4 papers); The nature of culture (3 papers); Dynamics of cultural change (4 papers); Social organization (5 papers); Religion, ceremonial, and recreation (3 papers); and Cross-cultural comparison (5 papers).

Economic and Social Aspects of Educational Planning. UNESCO, Paris, 1964 (order from UNESCO Publications Center, New York). 264 pp. Illus. \$5.50. Eleven papers.

The Economics of Poverty: An American Paradox. Burton A. Weisbrod, Ed. Prentice-Hall, Englewood Cliffs, N.J., 1965. 192 pp. Illus. Paper, \$1.95; cloth, \$4.95. Eighteen papers on the following topics: The general character of poverty (4 papers); The measurement and interpretation of poverty (4 papers); Some facets of the administration program: Problems and progress (4 papers); and Other viewpoints on what government should and should not do (6 papers).

Family of Outcasts: A New Theory of Delinquency. Seymour Rubinfeld. Free Press, New York; Collier-Macmillan, London, 1965. 352 pp. \$5.95.

Les Fondements Théoriques et Méthodologiques de la Psychologie. Jean Paulus. Dessart, Brussels, 1965. 181 pp. Illus. Manuels et Traités de Psychologie et de Sciences Humaines.

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Hano: A Tewa Indian Community in Arizona. Edward P. Dozier. Holt, Rinehart, and Winston, New York, 1966. 114 pp. Illus. Paper, \$1.50. Case Studies in Cultural Anthropology, edited by George Spindler and Louise Spindler.

Human Security: Some Reflections. W. E. Blatz. Univ. of Toronto Press, Toronto, Canada, 1966. 147 pp. Illus. \$5.

The Klamath Tribe: A People and Their Reservation. Theodore Stern. Univ. of Washington Press, Seattle, 1965. 372 pp. Illus. \$7.50.

Laboratory Experience in Psychology. A first term's work. B. Babington Smith. Pergamon, New York, 1965. 264 pp. Illus. Paper, \$4.50. Commonwealth and International Library.

Life in a Leyte Village. Ethel Nurge. Univ. of Washington Press, Seattle, 1965. 167 pp. Illus. \$5. American Ethnological Society Monograph 40.

The Magars of Banyan Hill. John T. Hitchcock. Holt, Rinehart, and Winston, New York, 1966. 129 pp. Illus. Paper, \$1.50. Case Studies in Cultural Anthropology, edited by George Spindler and Louise Spindler.

Marquesan Sexual Behavior. Robert C. Suggs. Harcourt, Brace, and World, New York, 1966. 269 pp. Illus. \$5.95.

Mathematical Explorations in Behavioral Science. Fred Massarik and Philburn Ratoosh, Eds. Richard D. Irwin and Dorsey Press, Homewood, Ill., 1965. 395 pp. Illus. \$7.95. Twenty-one papers on the following topics: Mathematics and behavioral science: Some prefatory thoughts (2 papers); Explorations in philosophy and method (4 papers); Individual behavior: The search for pattern (3 papers); Group behavior: Interaction and conflict (3 papers); Group behavior: Process and performance (4 papers); The behavior of large social aggregates: Parks, cities, and society (5 papers).

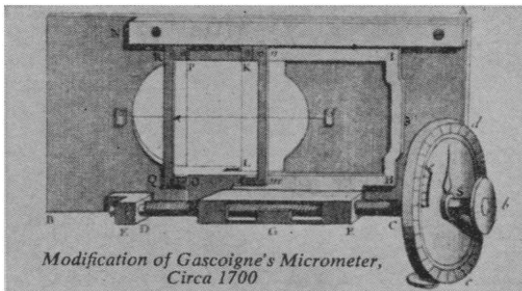
Nonalignment in Foreign Affairs (*Ann. Amer. Acad. Polit. Soc. Sci.* 362). Cecil V. Crabb, Jr., Ed. American Acad. of Political and Social Science, Philadelphia, 1965. 231 pp. Paper, \$2.50; cloth, \$3.50. Thirteen papers: "Nonalignment as a diplomatic and ideological credo" by Khalid I. Babaa and Cecil V. Crabb, Jr.; "Is containment moral?" by D. F. Fleming; "The European version of neutralism" by Jacques Freymond; "Nonalignment in the Arab world" by Don Peretz; "Asian non-alignment" by Sisir K. Gupta; "Nonalignment in Africa" by Thomas Patrick Melady; "Latin America and neutralism" by Nelson de Sousa Sampaio; "The neutralist world and disarmament negotiations" by Joseph L. Nogee; "The 'third force' and the United Nations" by Khalid I. Babaa; "The United States and the neutralists: a decade in perspective" by Cecil V. Crabb, Jr.; "The Soviet Union and the neutralist world" by John S. Reshetar, Jr.; "Communist China and the uncommitted zone" by Harold A. Vinacke; and "The future of nonalignment" by M. S. Rajan.

The Nunamiut Eskimos: Hunters of Caribou. Nicholas J. Gubser. Yale Univ. Press, New Haven, Conn., 1965. 400 pp. Illus. \$8.50.

Poverty in America: A Book of Readings. Louis A. Ferman, Joyce L. Kornbluh, and Alan Haber, Eds. Univ. of

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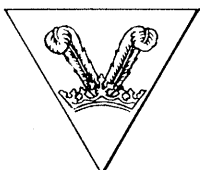
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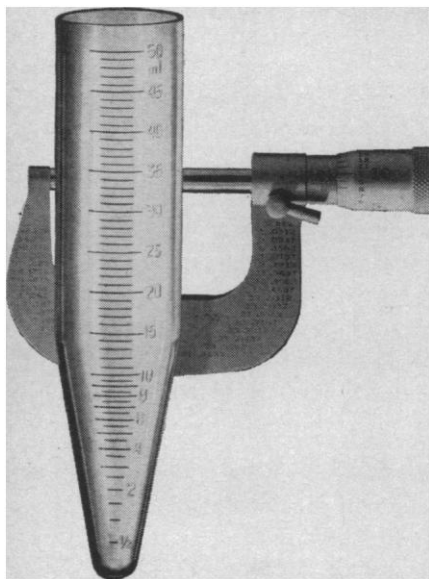
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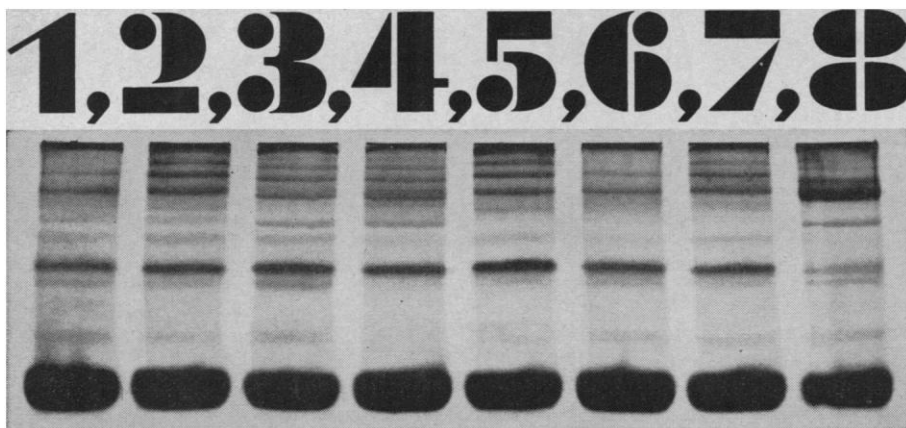
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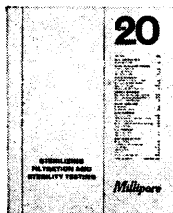
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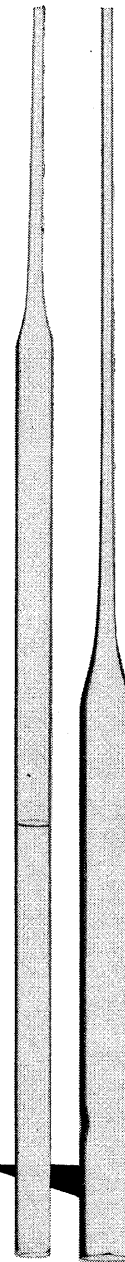
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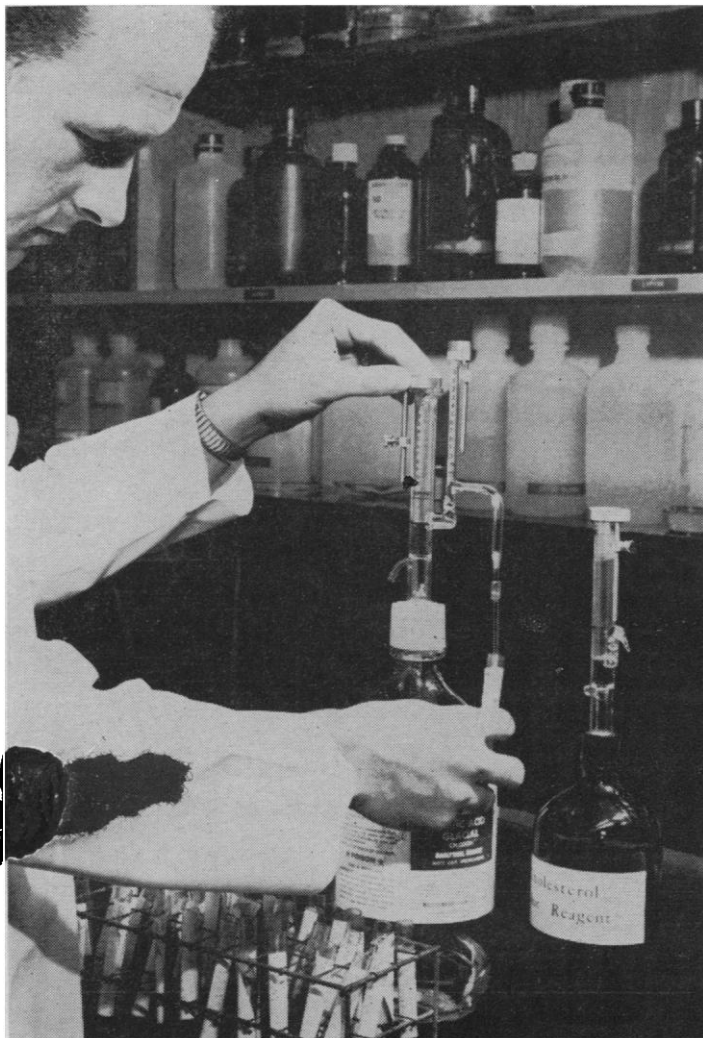
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intermetallic compounds" by John A. Rayne; "Some applications of quantum mechanical calculations to the electronic structure of alloys" by A. Blandin; "Atomic volume and size correlations in solid solutions" by H. W. King; "Stacking faults in metals and alloys" by J. W. Christian and P. R. Swann; "Structural defects in solid solutions" by P. Haasen; "Long period superlattices in alloys" by Hiroshi Sato and Robert S. Toth; and "Metastable solid solutions" by Pol Duwez.

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Cerebrospinal Fluid and the Regulation of Ventilation. Proceedings of a symposium (Brooklyn, N.Y.), April 1964. Chandler McC. Brooks, Frederick F. Kao, and Brian B. Lloyd, Eds. Davis, Philadelphia, 1965. 456 pp. Illus. \$16.50. Sixteen papers.

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Flight Test Instrumentation. vol. 3, Proceedings of the Third International Symposium (Cranfield, England), 1964. M. A. Perry, Ed. Pergamon, New York, 1965. 301 pp. Illus. \$15. Fourteen papers.

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Hormonal Control of Protein Biosynthesis. A symposium (Gatlinburg, Tenn.), April 1965. Oak Ridge Natl. Laboratory, Oak Ridge, Tenn., 1965. 197 pp. Illus. Paper. Thirteen papers given at a conference

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Mental Retardation in Canada. Proceedings, Federal-Provincial Conference (Ottawa), October 1964. Harvey W. Adams, Ed. Department of Natl. Health and Welfare, Ottawa, 1965. 313 pp. Paper, \$3. Includes papers from the five plenary sessions and the four group discussions. Available in French or English.

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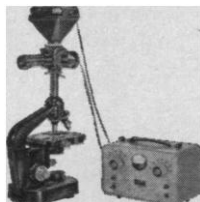
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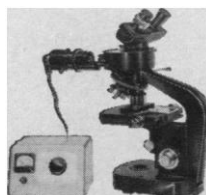


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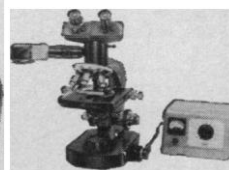
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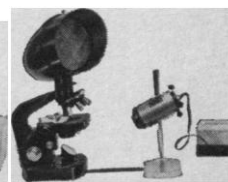
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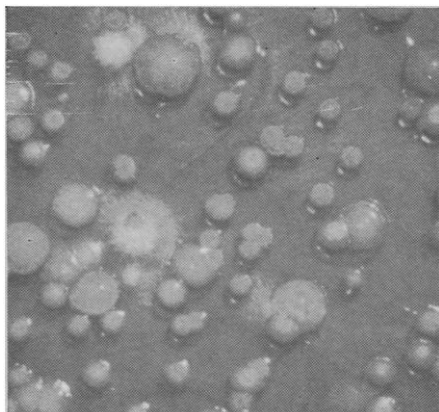
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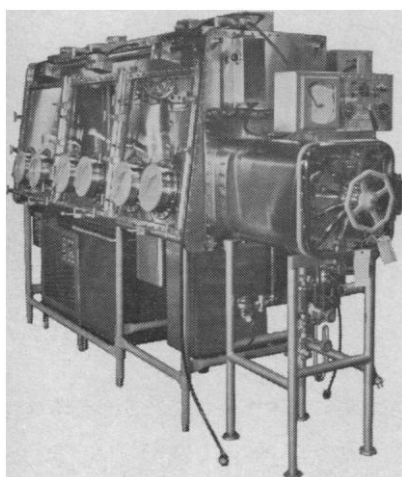
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properties of iron-base alloys" by E. A. Nesbitt and A. J. Williams; and "Precipitation in iron-base alloys—state of the art" by Morris Cohen.

Proceedings, London Mathematical Society: Papers Presented to J. E. Littlewood on His 80th Birthday. vol. 14A, 1965. J. D. Weston, Ed. Oxford Univ. Press, New York, 1966. 320 pp. Illus. \$12.80. Twenty-six papers.

Proceedings of the Natural Rubber Producers' Research Association Jubilee Conference (Cambridge, England), 1964. L. Mullins, Ed. Published for the Natural Rubber Producers' Research Assoc. by Maclaren, London, 1965. 258 pp. Illus. 42s. Sixteen papers: Plenary lectures (3 papers); Symposium on rubber biosynthesis (7 papers); and Symposium on relation between chemical structure and mechanical properties (6 papers).

Proceedings of the Symposium on Bacterial Transformation and Bacteriocinogeny (Budapest), August 1963. vol. 6. B. Györfy, Ed. Akadémiai Kiadó, Budapest, 1966. 167 pp. Illus. \$6. Twenty-two papers: Bacterial Transformation (9 papers); Bacteriocinogeny (6 papers); and DNA specificity and regulation (7 papers).

Radiological Monitoring of the Environment. A symposium (Berkeley, England), October 1963. B. C. Godbold and J. K. Jones, Eds. Pergamon, New York, 1965. 443 pp. Illus. \$15. Thirty-three papers.

VII International Mineral Processing Congress. vol. 1. A symposium (New York), September 1964. Nathaniel Arbiter, Ed. Gordon and Breach, New York, 1965. 623 pp. Illus. \$45. Fifty-five papers on the following topics: Comminution (6 papers); Gravity and Dense Media Separation (6 papers); Chemical Processing (3 papers); Flotation Kinetics (5 papers); Flotation Practice (4 papers); Chemistry of Flotation (7 papers); Surface Chemistry in Mineral Processing (6 papers); Magnetic and Electrical Separation (6 papers); Automation and Control (5 papers); and Symposium on Autogenous Grinding (7 papers).

Surface Interactions Between Metals and Glass. V. I. Arkharov and K. M. Gorbunova, Eds. Translated from the Russian edition (Moscow, 1964). Consultants Bureau, New York, 1966. 171 pp. Illus. Paper, \$25. Twenty-seven papers on topics considered at a conference (May 1963) honoring P. D. Dankov on his 60th birthday.

Symposium on Diffusions in Oceans and Fresh Waters (Palisades, N.Y.), August–September, 1964. Takashi Ichiye, Ed. Lamont Geological Observatory, Columbia University, Palisades, N.Y., 1965. 174 pp. Illus. Paper, \$2. Fourteen papers and five summaries of papers prepared from notes.

The United States and Japan. Twenty-eighth American Assembly (New York), October 1965. Herbert Passin, Ed. Prentice-Hall, Englewood Cliffs, N.J., 1966. 186 pp. Paper. \$1.95. Six papers: "The image" by Edward Seidensticker; "The legacy of the occupation" by Robert E. Ward; "Political relations" by Lawrence Olson; "Political economy" by William W. Lockwood; "The view from Japan" by Kinhide Mushakoji; and "The future" by Herbert Passin.

NEWS AND COMMENT

(Continued from page 1518)

climatological aspects; and recommendations for further research. Sponsors: International Commission on Polar Meteorology, IUGG; Scientific Committee on Antarctic Research; and World Meteorological Organization. Send title and indication of scope of proposed papers to K. Langlo, WMO, 41 Avenue Giuseppe-Motta, 1200, Geneva.

Abstracts: six copies in English; if possible, necessary diagrams; deadline: *1 June*. (Svenn Orvig, Department of Meteorology, McGill University, Montreal, Quebec, Canada)

A symposium on fundamentals of **gas-surface interaction** is scheduled for 14–16 December in San Diego, California. The topics to be covered include the surface and its characteristics; adsorption and reaction of gases on or with surfaces; and scattering processes, including energy and momentum transfer at the gas-surface interface. Emphasis will be on studies involving incident particles which are gaseous neutral species with energies below 10 electron volts, on their interaction with well-defined crystalline, but not necessarily clean, surfaces. Deadlines: declaration of intent to submit a paper, and title: *1 June*; abstracts: *1 September*. (H. Saltsburg, General Dynamics/General Atomic, P.O. Box 608, San Diego, California 92112)

Courses

Applications are being accepted for a course on **marine geology** of the Pacific basin, scheduled for 24–26 June at the University of California, Berkeley. The program is designed to provide postgraduate work in marine geology for earth scientists and people in related fields. Topics to be covered include structure and bathymetry of the Pacific basin, deep-sea sediments, marine sediments off California, marine geochemistry, instrumentation in marine geology, and the federal role in marine geology. The registration fee is \$125; graduate students may apply for a reduced fee of \$60. (R. E. Patterson, Letters and Science Extension, University of California, Berkeley)

The American Association of Immunologists will present a course in **basic immunology**, 25 July to 6 August