

wonders if this was really necessary what with so many manuals already available on the market. It is the latter part of the book that geologists will find most interesting. Here are collected a number of computer applications often encountered in geological research. Examples include numerical processing of chemical analyses, calculation of mineral norms of rocks, and various statistical tests applicable to geological data. These are aptly illustrated through the use of flow diagrams.

Unfortunately, the book covers only a small part of what might be called geological data processing. For example, no treatment is given of subjects related to the acquisition, storage, or retrieval of geological data. Nor is there any discussion of the various modes of presentation of results with computers, such as the preparation of contour maps, stratigraphic sections, or correlation diagrams. All are important facets of geological data processing.

The danger in a book of this kind is that the oversimplification in presentation will lead to misuse of the mathematical methods it contains. Even worse is that coverage of this material by the student will substitute for a more formal exposure to mathematics. Provided these strictures are kept in mind, however, this book should prove useful to the geologist learning FORTRAN IV computer programming.

RICHARD B. MCCAMMON

*Gulf Research and Development Corporation, Pittsburgh, Pennsylvania*

## New Books

**Alcoholism: Mechanism and Management.** Max Hayman. Thomas, Springfield, Ill., 1966. 331 pp. Illus. \$10.50. American Lecture Series.

**Annual Review of Nuclear Science.** vol. 16. Emilio Segrè, Gerhart Friedlander, and H. Pierre Noyes, Eds. Annual Reviews, Palo Alto, Calif., 1966. 677 pp. Illus. \$8.50. Seventeen papers.

**The Biochemical Genetics of Vertebrates Except Man.** I. E. Lush. North-Holland, Amsterdam; Saunders, Philadelphia, 1966. 128 pp. Illus. \$7.50. *Frontiers of Biology*, vol. 3.

**Concepts, Theory, and Explanation in the Behavioral Sciences.** Proceedings of a symposium (Fairfield, Conn.), April 1964. Gordon J. DiRenzo, Ed. Random House, New York, 1966. 314 pp. Illus. \$4.95. Eight papers.

**Contributions to Embryology.** vol. 38. Ronan O'Rahilly, John W. S. Harris, Elizabeth M. Ramsey, Glenn C. Rosen-

quist, and Robert L. DeHaan. Carnegie Institution of Washington, Washington, D.C., 1966. 135 pp. Illus. Paper, \$20.75; cloth, \$22.50. Five papers and an index to the preceding volumes.

**The Development of Sex Differences.** Eleanor E. Maccoby, Ed. Stanford Univ. Press, Stanford, Calif., 1966. 361 pp. Illus. \$8.50. Five papers. *Stanford Studies in Psychology*, vol. 5.

**Digital Transistor Circuits.** J. N. Harris, P. E. Gray, and C. L. Searle. Wiley, New York, 1966. 237 pp. Illus. Paper, \$2.65; cloth, \$4.50. *Semiconductor Electronics Education Committee*, vol. 6.

**Durability of Adhesive Joints.** Symposium presented at a meeting of Committee D-14 on Adhesives (Washington, D.C.), October 1965. American Soc. for Testing and Materials, Philadelphia, 1966. 111 pp. Illus. Paper, \$6.25. Eight papers.

**Early American Winters, 1604-1820.** David M. Ludlum. American Meteorological Soc., Boston, 1966. 297 pp. Illus. \$10.

**Enrichment Experiments in Basic Chemistry.** Michael P. Olmsted. Hayden, New York, 1966. 118 pp. Illus. Paper, \$2.96.

**Enzymologie für den praktischen Arzt.** Hermann Mattenheimer. Huber, Bern, Switzerland, 1966. 156 pp. Illus. DM. 29.80.

**Genetic and Allied Effects of Alkylating Agents.** Anthony Loveless. Pennsylvania State Univ. Press, University Park, 1966. 284 pp. Illus. \$14.50.

**History of Psychology: An Overview.** Henryk Misiak and Virginia Staudt Sexton. Grune and Stratton, New York, 1966. 509 pp. \$12.50.

**Homology and Feynman Integrals.** Rudolph C. Hwa and Vigdor L. Teplitz. Benjamin, New York, 1966. 343 pp. Illus. \$12.50. *Mathematical Physics Monograph Series*.

**Host-Parasite Relationships.** Proceedings of the 26th Annual Biology Colloquium (Corvallis, Ore.), April 1965. James E. McCauley, Ed. Oregon State Univ. Press, Corvallis, 1966. 148 pp. Illus. \$4.50. Six papers.

**Huang Ti Nei Ching Su Wen: The Yellow Emperor's Classic of Internal Medicine.** Translated from the Chinese. Ilza Veith. Univ. of California Press, Berkeley, ed. 2, 1966. 282 pp. Illus. \$8.

**Huenun Namku: An Araucanian Indian of the Andes Remembers the Past.** M. Inez Hilger. Univ. of Oklahoma Press, Norman, 1966. 152 pp. Illus. \$3.95.

**Human Physiology.** Thomas F. Morrison, Frederick D. Cornett, J. Edward Tether, and Pauline Gratz. Holt, Rinehart, and Winston, New York, 1966. 509 pp. Illus. \$6.32.

**The Human Skull: A Cultural History.** Folke Henschen. Translated from the Swedish by Stanley Thomas. Praeger, New York, 1966. 168 pp. Illus. \$7.95.

**The Hunger To Come.** John Laffin. Abelard-Schuman, New York, 1966. 208 pp. Illus. \$4.95.

**The Indian: America's Unfinished Business.** Report of the Commission on the Rights, Liberties, and Responsibilities of the American Indian. Compiled by William A. Brophy and Sophie D. Aberle. Univ. of Oklahoma Press, Norman, 1966.

256 pp. Illus. \$5.95.

**Insect Pests of Farm, Garden, and Orchard.** Ralph Howard Davidson and Leonard Marion Peairs. Wiley, New York, ed. 6, 1966. 685 pp. Illus. \$17.50.

**Insects and Hygiene.** James R. Busvine. Methuen, London; Barnes and Noble, New York, ed. 2, 1966. 479 pp. Illus. \$18.

**Introduction to Diophantine Approximations.** Serge Lang. Addison-Wesley, Reading, Mass., 1966. 93 pp. Illus. \$6.75. *Addison-Wesley Series in Mathematics*.

**Introduction to Molecular Biological Techniques.** L. Jack Bradshaw. Prentice-Hall, Englewood Cliffs, N.J., 1966. 183 pp. Illus. Paper, \$4.25.

**Introduction to Statistical Analysis and Inference for Psychology and Education.** Sidney J. Armore. Wiley, New York, 1966. 566 pp. Illus. \$8.95.

**Introduction to Transcendental Numbers.** Serge Lang. Addison-Wesley, Reading, Mass., 1966. 111 pp. Illus. \$7.50. *Addison-Wesley Series in Mathematics*.

**The Inventor's Patent Handbook.** Stacy V. Jones. Dial Press, New York, 1966. 239 pp. \$5.

**John F. Kennedy and the New Frontier.** Aida DiPace Donald, Ed. Hill and Wang, New York, 1966. 284 pp. \$5.95. Eighteen papers.

**Lie Groups for Pedestrians.** Harry J. Lipkin. North-Holland, Amsterdam; Wiley, New York, ed. 2, 1966. 194 pp. Illus. \$6.50.

**Linear Differential Equations and Function Spaces.** José Luis Massera and Juan Jorge Schäffer. Academic Press, New York, 1966. 424 pp. Illus. \$16. *Pure and Applied Mathematics Series*.

**The Living Landscape.** Paul B. Sears. Basic Books, New York, 1966. 199 pp. Illus. \$4.95.

**The Mammals of Eastern Canada.** Randolph L. Peterson. Oxford Univ. Press, Toronto, 1966. 497 pp. Illus. \$15.95.

**The Managerial Revolution in Higher Education.** Francis E. Rourke and Glenn E. Brooks. Johns Hopkins Press, Baltimore, 1966. 196 pp. \$8.

**Measurement of Air Flow.** E. Ower and R. C. Pankhurst. Pergamon, New York, ed. 4, 1966. 375 pp. Illus. \$9.75.

**Mechanics of Crushing Sugar Cane.** C. R. Murry and J. E. Holt. Elsevier, New York, 1967. 153 pp. Illus. \$15.50.

**Men and Pandas.** Ramona Morris and Desmond Morris. McGraw-Hill, New York, 1966. 223 pp. Illus. \$7.95.

**Methods of Numerical Approximation.** Lectures delivered at a Summer School (Oxford, England), September 1965. D. C. Handscomb, Ed. Pergamon, New York, 1966. 228 pp. Illus. \$9.50. Twenty-four papers.

**Mechanics of Secondary Oil Recovery.** Charles Robert Smith. Reinhold, New York, 1966. 512 pp. Illus. \$18.

**Metropolis on the Move: Geographers Look at Urban Sprawl.** A conference (Carbondale, Ill.), January-February 1964. Jean Gottmann and Robert A. Harper, Eds. Wiley, New York, 1966. 219 pp. Illus. Paper, \$3.45; cloth, \$6.50. Twelve papers.

**The Middle Ultraviolet: Its Science and Technology.** A. E. S. Green, Ed. Wiley, New York, 1966. 404 pp. Illus. \$15.75.

(Continued on page 125)

## NEW BOOKS

(Continued from page 66)

**Misperception and the Vietnam War.** Ralph K. White. Soc. for the Psychological Study of Social Issues, Ann Arbor, Mich., 1966. 171 pp. Paper, \$1.50. *Journal of Social Issues*, vol. 22, No. 3.

**Missions to the Niger.** vol. 2, pts. 1 to 3, *The Bornu Mission, 1822-25*. E. W. Bovill, Ed. Published for the Hakluyt Society. Cambridge Univ. Press, New York, 1966. pt. 1, 320 pp.; pt. 2, 302 pp.; pt. 3, 212 pp. Illus. Set, \$25.

**Modern Genetics.** Haig P. Papazian. Norton, New York, 1966. 370 pp. Illus. \$7.50.

**Nebraska Symposium on Motivation, 1966.** David Levine, Ed. Univ. of Nebraska Press, Lincoln, 1966. 219 pp. Illus. Paper, \$2.75; cloth, \$5.95. Six papers.

**Modern Optical Engineering: The Design of Optical Systems.** Warren J. Smith. McGraw-Hill, New York, 1966. 490 pp. Illus. \$15.

**Molecular Physics of Boundary Friction.** A. S. Akhmatov. Translated from the Russian edition (Moscow, 1963) by N. Kaner. S. I. Ben-Avraham, Translation Ed. Israel Program for Scientific Translations, Jerusalem; Davey, New York, 1966. 492 pp. Illus. \$19.

**The Nature of Perceptual Adaptation.** Irvin Rock. Basic Books, New York, 1966. 303 pp. Illus. \$8.50.

**Nobel Lectures in Chemistry.** vol. 1, 1901-21. Published for the Nobel Foundation. Elsevier, New York, 1966. 422 pp. Illus. Set of three volumes, \$85.

**Non-Compact Groups in Particle Physics.** Proceedings of a conference (Milwaukee, Wis.), May 1966. Yutze Chow, Ed. Benjamin, New York, 1966. 224 pp. Illus. \$12.50. Eleven papers.

**Opencast Mining, Quarrying and Alluvial Mining.** Proceedings of a symposium (London), November 1964. Sponsored by Institution of Mining and Metallurgy, Institution of Mining Engineers, and Institute of Quarrying. J. H. Taylor, Ed. Elsevier, New York, 1966. 786 pp. Illus. \$19. Thirty-four papers.

**Optimal Shutdown Control of Nuclear Reactors.** Milton Ash. Academic Press, New York, 1966. 183 pp. Illus. \$8.50. *Mathematics in Science and Engineering*, vol. 26.

**Orientation Effects in the Mechanical Behavior of Anisotropic Structural Materials.** Symposium presented at the Fifth Pacific Area National Meeting (Seattle, Wash.), October-November 1965. American Soc. for Testing and Materials, Philadelphia, 1966. 96 pp. Illus. Paper, \$7.75. Five papers.

**The Origins of CSIRO: Science and the Commonwealth Government, 1901-1926.** Sir George Currie and John Graham. Commonwealth Scientific and Industrial Research Organization, Melbourne, 1966. 215 pp. Illus. \$4.

**Perceptual Development in Children.** Aline H. Kidd and Jeanne L. Rivoire, Eds. International Universities Press, New York, 1966. 568 pp. Illus. \$12.50. Seventeen papers.

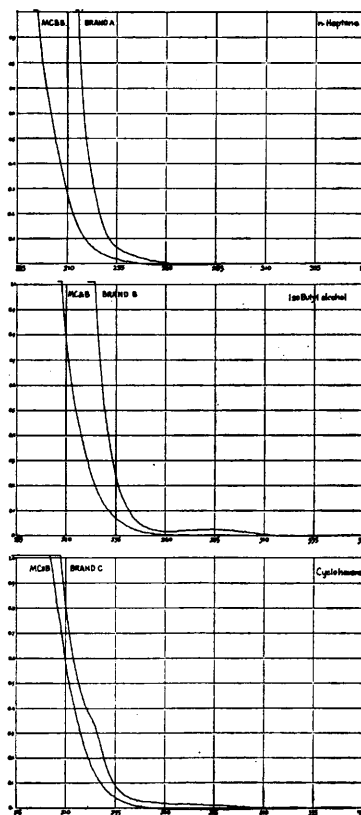
**Plant Physiology.** Henrik Lundegårdh. Translated from the second German edition (Jena, 1960) by F. M. Irvine. W. O.

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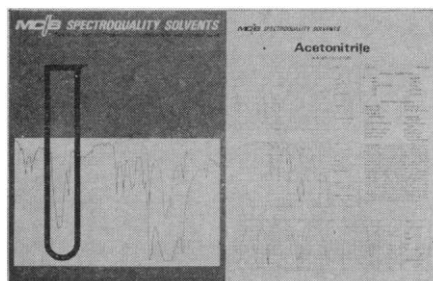
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James, Translation Ed. Elsevier, New York, 1966. 563 pp. Illus. \$37.50.

**Physiology of Echinodermata.** Richard A. Boolootian, Ed. Interscience (Wiley), New York, 1966. 840 pp. Illus. \$45.

**The Plains of Camdeboo.** Eve Palmer. Viking Press, New York, 1966. 320 pp. Illus. \$6.

**Polymerization by Organometallic Compounds.** Leo Reich and A. Schindler. Interscience (Wiley), New York, 1966. 750 pp. Illus. \$25.

**The Principles of Chemical Equilibrium: With Applications in Chemistry and Chemical Engineering.** Kenneth Denbigh. Cambridge Univ. Press, New York, ed. 2, 1966. 516 pp. Illus. Paper, \$3.95; cloth, \$9.50.

**Principles of Coherent Communication.** Andrew J. Viterbi. McGraw-Hill, New York, 1966. 333 pp. Illus. \$13.50. McGraw-Hill Series in Systems Science.

**The Principles of Lubrication.** A. Cameron. Wiley, New York, 1966. 605 pp. Illus. \$24.

**Protein Biosynthesis and Problems of Heredity, Development, and Ageing.** Zh. A. Medvedev. Translated from the Russian edition (Moscow, 1963) by Ann Synge. Plenum, New York, 1966. 606 pp. Illus. \$25.

**Psychoanalysis: A General Psychology.** Essays in honor of Heinz Hartmann. Rudolph M. Loewenstein, Lottie M. Newman, Max Schur, and Albert J. Solnit, Eds. Internatl. Universities Press, New York, 1966. 698 pp. Illus. \$15. Thirty-two papers.

**Psychodiagnosis in Schizophrenia.** Irving B. Weiner. Wiley, New York, 1966. 587 pp. Illus. \$11.95.

**Pulver-Atlas der Drogen des Deutschen Arzneibuches.** Walter Eschrich, Fischer, Stuttgart, 1966. (order from Intercontinental Medical Book Corp., New York). 216 pp. Illus. \$7.25.

**Radioecology of Aquatic Organisms.** The accumulation and biological effect of radioactive substances. G. G. Polikarpov. Translated from the revised Russian edition (Moscow, 1965) by Scripta Technica. Vincent Schultz and Alfred W. Klement, Jr., Translation Eds. Reinhold, New York, 1966. 342 pp. Illus. \$16.50.

**Reticles in Electro-Optical Devices.** Lucien M. Biberman. Pergamon, New York, 1966. 187 pp. Illus. \$7. International Series of Monographs in Infrared Science and Technology, vol. 1.

**The Romance of Physics.** Keith Gordon Irwin. Scribner, New York, 1966. 240 pp. Illus. \$4.95.

**Rotifers.** Josef Donner. Translated from the German edition (Stuttgart, 1956) by H. G. S. Wright. Warne, New York, 1966. 92 pp. Illus. \$3.95.

**Russian-English Dictionary and Reader in the Cybernetical Sciences.** With a selected bibliography of Soviet publications in the cybernetical sciences. Samuel Kotz. Academic Press, New York, 1966. 236 pp. \$11.

**The Salicylates: A Critical Bibliographic Review.** M. J. H. Smith and Paul K. Smith. Interscience (Wiley), New York, 1966. 327 pp. Illus. \$10.

**Serological Diagnostix.** Lucio Nuzzolo. Thomas, Springfield, Ill., 1966. 140 pp. \$6.75.

**Set Theory and the Continuum Hypothesis.** Paul J. Cohen. Benjamin, New York, 1966. 160 pp. Illus. Paper, \$3.95; cloth, \$8.

**Shaft Fractures and Pseudarthroses.** Bruce M. Cameron. Thomas, Springfield, Ill., 1966. 132 pp. Illus. \$6.75.

**Silicate Science.** vol. 4, *Hydrothermal Silicate Systems.* Wilhelm Eitel. Academic Press, New York, 1966. 631 pp. Illus. \$24.

**Spectroscopy.** D. H. Whiffen. Wiley, New York, 1966. 213 pp. Illus. Paper, \$4.25.

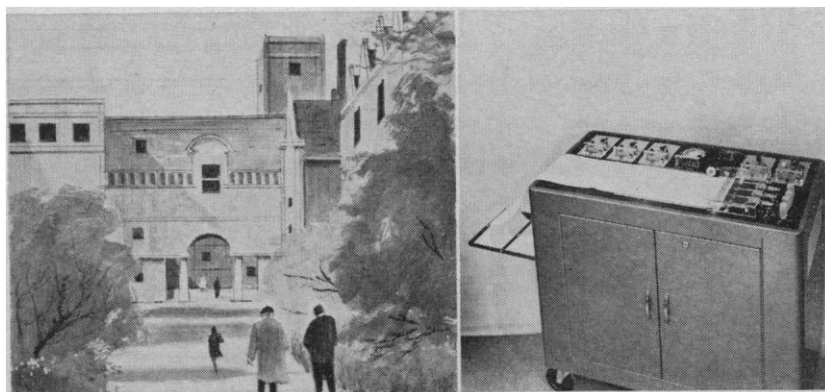
**Sociological Framework for Patient Care.** Jeannette R. Folta and Edith S. Deck, Eds. Wiley, New York, 1966. 438 pp. Illus. Paper, \$4.95; cloth, \$7.95.

**Spacetime Physics.** Edwin F. Taylor and John Archibald Wheeler. Freeman, San Francisco, Calif., 1966. 214 pp. Illus. \$4.75.

**Spin-Lattice Relaxation in Ionic Solids.** A. A. Manenkov and R. Orbach, Eds. Harper and Row, New York, 1966. 471 pp. Illus. Paper, \$5. Harper's Physics Series. Forty-five papers reprinted from various journals; they were published between 1932 and 1965.

**Statesmen of Science.** J. G. Crowther. Dufour, Chester Springs, Pa., 1966. 407 pp. Illus. \$8.95. Studies of nine statesmen during the last 150 years.

**Strong Solids.** A. Kelly. Oxford Univ. Press, New York, 1966. 228 pp. Illus. \$6.75.



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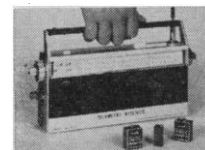
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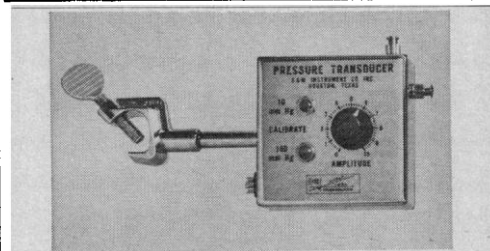
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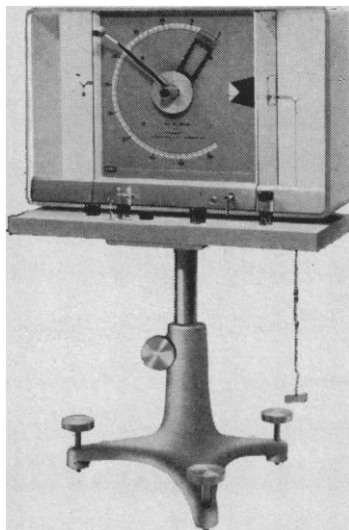
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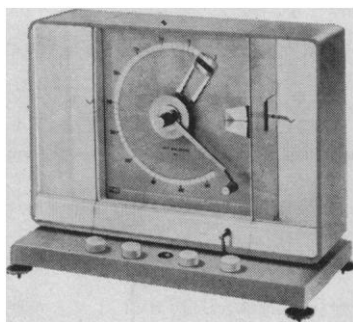
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**Systematic Embryology of the Angiosperms.** Gwenda L. Davis. Wiley, New York, 1966. 538 pp. \$19.75.

**The Systematics and Distribution of Permian Miospores.** George F. Hart. Witwatersrand Univ. Press, Johannesburg, South Africa, 1965. 260 pp. Illus. \$12.05.

**Testing Techniques for Rock Mechanics.** Symposium presented at Fifth Pacific Area National Meeting (Seattle, Wash.), October–November 1965. American Soc. for Testing and Materials, Philadelphia, 1966. 303 pp. Illus. \$14.75.

**Textile Finishing.** A. J. Hall. Elsevier, New York, ed. 3, 1966. 453 pp. Illus. \$20.

**Textile Laboratory Manual.** vol. 1, *Qualitative Methods*. vol. 2, *Resins and Finishes*. W. Garner. Elsevier, New York, 1966. vol. 1 (ed. 2), 256 pp. Illus. \$10.75; vol. 2 (ed. 3), 124 pp. Illus. \$7.50.

**Theories of Counseling and Psychotherapy.** C. H. Patterson. Harper and Row, New York, 1966. 528 pp. \$9.75.

**The Theory of Jets in an Ideal Fluid.** M. I. Gurevich. Translated from the Russian edition (Moscow, 1961) by R. E. Hunt. E. E. Jones and G. Power, Translation Eds. Pergamon, New York, 1966. 420 pp. Illus. \$14.50. International Series of Monographs in Pure and Applied Mathematics, vol. 93.

**Theory of Satellite Geodesy.** Applications of satellites to geodesy. William M. Kaula. Blaisdell (Ginn), Waltham, Mass., 1966. 140 pp. Illus. \$5.75.

**Theory of Self-Reproducing Automata.** John von Neumann. Arthur W. Banks, Ed. Univ. of Illinois Press, Urbana, 1966. 408 pp. Illus. \$10.

**Theory of Spectrochemical Excitation.** P. W. J. M. Boumans. Plenum, New York, 1966. 395 pp. Illus. \$12.50.

**Thought and Choice in Chess.** Adriaan D. de Groot. Basic Books, New York, 1966. 479 pp. Illus. \$10.50.

**Titanium: Its Occurrence, Chemistry, and Technology.** Jelks Barksdale. Ronald, New York, ed. 2, 1966. 699 pp. Illus. \$20.

**Topology Seminar, Wisconsin, 1965** (Madison). R. H. Bing and R. J. Bean, Eds. Princeton Univ. Press, Princeton, N.J., 1966. 256 pp. Illus. \$5.

**Toward Economic Stability.** Maurice W. Lee. Wiley, New York, 1966. 191 pp. Illus. Paper, \$1.95; cloth, \$4.95.

**Trends in Plant Morphogenesis.** Elizabeth G. Cutter, Ed. Wiley, New York, 1966. 345 pp. Illus. \$11.25. There are 17 essays presented to C. W. Wardlaw on his 65th birthday.

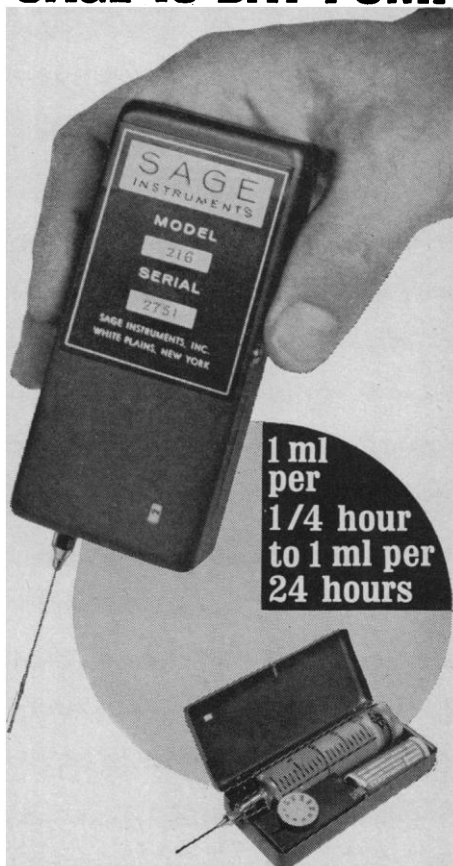
**Turning into Tomorrow.** Watson Thomson. Philosophical Library, New York, 1966. 174 pp. \$3.75.

**Twins and Twin Relations.** Helen L. Koch. Univ. of Chicago Press, Chicago, 1966. 318 pp. \$6.95.

**Unit Operations in Food Processing.** R. L. Earle. Pergamon, New York, 1966. 354 pp. Illus. Paper, \$7.50. Commonwealth and International Library.

**Useful Plants of Brazil.** Walter B. Mors and Carlos T. Rizzini. Holden-Day, San Francisco, 1966. 182 pp. Illus. \$10.

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**When the Eagle Screamed: The Romantic Horizon in American Diplomacy, 1800-1860.** William H. Goetzmann. Wiley, New York, 1966. 156 pp. Paper, \$1.95; cloth, \$4.95.

**Window on the Unknown.** A history of the microscope. Corrine Jacker. Scribner, New York, 1966. 188 pp. Illus. \$3.95.

**X-Ray Diffraction Methods.** E. W. Nuffield. Wiley, New York, 1966. 423 pp. Illus. \$12.50.

**Worlds-Antiworlds: Antimatter in Cosmology.** Hannes Alfvén. Translated from the Swedish edition (Stockholm, 1966). Freeman, San Francisco, 1966. 109 pp. Illus. \$3.50.

## Miscellaneous Publications

**American Museum of Natural History.** *Bulletin*, vol. 132, pp. 1-126, "Deltatheridia, a new order of mammals," Leigh Van Valen (\$5); vol. 132, pp. 127-174, "Asiatic Mesonychia (Mammalia, Condylarthra)," Frederick S. Szalay and Stephen Jay Gould (\$3); vol. 132, pp. 175-244, "A revision of the moth genus *Anacamptodes* (Lepidoptera, Geometridae)," Frederick H. Rindge (\$4); vol. 132, pp. 245-276, "Birds of the middle Sepik region, New Guinea," E. Thomas Gilliard and Mary Lecroy (\$1); vol. 132, pp. 277-328, "Teiid lizards of the genus *Neusticurus* (Reptilia, Sauria)," Thomas M. Uzzell, Jr. (\$2); vol. 133, pp. 1-614, "A monograph of the Emesinae (Reduviidae, Hemiptera)," Pedro W. Wygodzinsky (\$20); vol. 134, pp. 1-25, "Hybridization in meadowlarks," Wesley E. Lanyon (\$2); vol. 134, pp. 27-184, "A contribution to the herpetology of West Pakistan," Sherman A. Minton, Jr. (\$5). American Museum of Natural History, New York, 1966.

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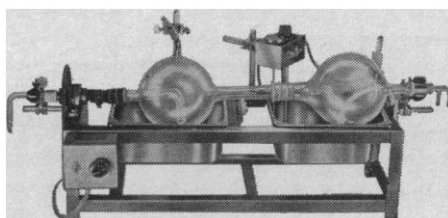
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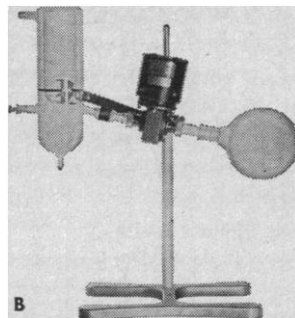
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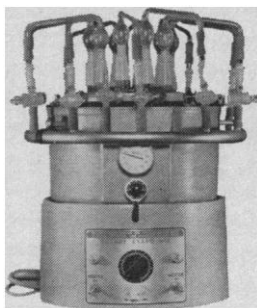
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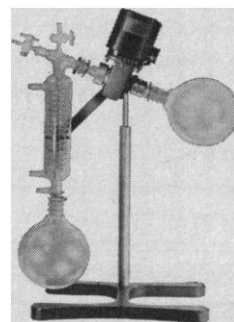
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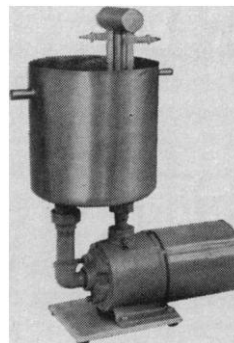
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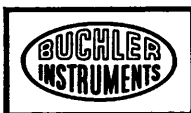


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