

tograph of a commercial gas laser, a rectangular parallelepiped, essentially, with hardly more information content than any other such geometrical figure. The sin has here been repeated several times; just one photo includes a "dime for size reference." (ii) Any historical discussion of the "development of the gas laser" (section B) is sure to displease somebody, so we must have sympathy; but the attribution of special importance to the Hg ion laser on page 15, for instance, seems calculated to draw fire. This will not stand as a legal history of the development of the gas laser. (iii) The terms "temporal mode" and "spatial mode" are not common usage (rather, "axial" or "longitudinal," and "transverse." Perhaps the author feels that "longitudinal" and "transverse" have other, highly specific meanings. Surely "temporal" and "spatial" aren't good, either. Someone suggests "axial" and "off-axis" modes). (iv) The discussion of "homogeneous and inhomogeneous broadening" on page 15 conflicts with good usage. (v)  $\tau$  is omitted from the denominator of equation 17, so that the sense is lost. (vi) The statement on page 29 that in the gain formula " $N$  and  $N'$  must have the units of total population *per unit length* in order that  $\alpha$  have the correct units of inverse length," is incorrect.

Chapter 2, "Characteristics of practical gas lasers," is rather good; though I could quibble with a few points. Chapter 3, "Modes and resonators," is still better, especially figure 28 (an improved region-of-stability diagram). Chapter 4, "The gas laser considered as a light source or local oscillator," is very good, especially section A, on the properties of an ideal Gaussian laser beam, and another section on mode control and use of supermodes. This chapter makes the book worthwhile. The last chapter deals with specific problems and exploitable advantages which may appear in the use of lasers for distance measurements, light-scattering experiments, and the like, and safety considerations. It is only fairly good.

This is a book worth buying overall. Some sections are best ignored, and some topics will have to be dug out of the reference books, of course. Don't read through compulsively; read just what you want.

WALTER L. FAUST  
Departments of Physics and Electrical Engineering, University of Southern California, Los Angeles

## Books Received

**Annual Review in Automatic Programming 5.** Mark I. Halpern, Christopher J. Shaw, Louis Bollet, R. Anthony Brooker, Andrei P. Ershov, and Robert W. Floyd, Eds. Pergamon, New York, 1969. xii + 336 pp., illus. \$18.50. International Tracts in Computer Science and Technology and Their Application, vol. 13.

**Anthropology Simplified.** Rena C. Gropner. Barnes and Noble, New York, 1969. vi + 122 pp. Paper, \$2.25. Barnes and Noble Keynotes, No. 704.

**Average Cloudiness in the Tropics from Satellite Observations.** James C. Sadler. East-West Center Press, Honolulu, 1969. x + 22 pp., illus. + 24 plates. \$7.50. International Indian Ocean Expedition Meteorological Monographs, No. 2.

**Behavior of Enzyme Systems.** John M. Reiner. Van Nostrand-Reinhold, New York, ed. 2, 1969. xviii + 350 pp., illus. \$14.50.

**A Biographical Dictionary of Scientists.** Trevor I. Williams and Sonia Withers, Eds. Interscience (Wiley), New York, 1969. xii + 596 pp. \$9.95.

**Biology of the Gene.** Louis Levine. Mosby, St. Louis, 1969. xiv + 338 pp., illus. \$9.50.

**Chromatographic Methods.** R. Stock and C. B. F. Rice. Chapman and Hall, London, ed. 2, 1967 (U.S. distributor, Barnes and Noble, New York). viii + 256 pp., illus. Paper, \$4. Science Paperbacks, No. 39.

**Comprehensive Chemical Kinetics.** C. H. Bamford and C. F. H. Tipper, Eds. Vol. 1, The Practice of Kinetics. Elsevier, New York, 1969. xiv + 450 pp., illus. \$32.50.

**Concepts of Space.** The History of Theories of Space in Physics. Max Jammer. Foreword by Albert Einstein. Harvard University Press, Cambridge, Mass., ed. 2, 1969. xvi + 222 pp. \$5.50.

**Contexts of Education.** J. F. Morris and E. A. Lunzer, Eds. Elsevier, New York, 1969. xvi + 312 pp., illus. \$10.50. Development in Learning, vol. 3.

**Controversy in the Twenties.** Fundamentalism, Modernism, and Evolution. Willard B. Gatewood, Jr., Ed. Vanderbilt University Press, Nashville, Tenn., 1969. x + 462 pp. \$10.

**Convention.** A Philosophical Study. David K. Lewis. Harvard University Press, Cambridge, Mass., 1969. xvi + 216 pp., illus. \$8.

**Convex Polyhedra with Regular Faces.** Viktor A. Zalgaller. Translated from the Russian edition (Leningrad, 1966). Consultants Bureau, New York, 1969. vi + 98 pp., illus. Paper, \$12.50. Seminars in Mathematics, vol. 2.

**A Course in Ordinary and Partial Differential Equations.** Zalman Rubinstein. Academic Press, New York, 1969. x + 478 pp., illus. \$12.

**Creative Conservation for Life and Living.** Proceedings of the 23rd annual meeting of the Soil Conservation Society of America, Athens, Ga., 1968. Soil Conservation Society of America, Ankeny, Iowa, 1969. iv + 192 pp., illus. Paper, \$5.

**Cure for Chaos.** Fresh Solutions to Social Problems through the Systems Ap-

proach. Simon Ramo. McKay, New York, 1969. xii + 116 pp. \$3.95.

**Debert: A Palaeo-Indian Site in Central Nova Scotia.** George F. MacDonald. National Museum of Canada, Ottawa, 1968. x + 210 pp., illus. Paper. Anthropology Papers, No. 16.

**The Epitome of Andreas Vesalius.** Translated from the Latin edition (Basel, 1543) by L. R. Lind. With anatomical notes by C. W. Asling. MIT Press, Cambridge, 1969. xxxviii + 138 pp., illus. Cloth, \$10; paper, \$3.45. Reprint of the 1949 edition.

**Evaluation Activities of Curriculum Projects.** A Starting Point. Hulda Grobman. Rand McNally, Chicago, 1969. xiv + 138 pp., illus. Cloth, \$3.50; paper, \$2. American Educational Research Association Monograph Series on Curriculum Evaluation. Rand McNally Education Series.

**Experimental Animal Physiology.** Experiments in Cellular and General Physiology. Arnold Dunn and Joseph Arditti. Holt, Rinehart and Winston, New York, 1969. xvi + 314 pp., illus. + 4 plates. Paper, \$5.95.

**Experimental "Metabolic" Cardiopathies and Their Relationship to Human Heart Diseases.** A conference, New York, 1967. Eörs Bajusz, Ed. New York Academy of Sciences, New York, 1969. 528 pp., illus. Paper, \$26. *Annals of the New York Academy of Sciences*, vol. 156, art. 1.

**Experimental Neuropsychology.** A Laboratory Manual. Benjamin L. Hart. Freeman, San Francisco, 1969. viii + 104 pp., illus. Paper, \$4.75. Psychology Series.

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**Geronto-Psychiatric Literature in the Postwar Period.** A Review of the Literature to January 1, 1965. L. Ciompi. Translated from the German edition (Stuttgart, 1966). National Clearinghouse for Mental Health Information, National Institute of Mental Health, Chevy Chase, Md., 1969 (available from the Superintendent of Documents, Washington, D.C.). vi + 98 pp. Paper, \$1. Public Health Service Publication No. 1811.

**Gesammelte mathematische Werke.** Richard Dedekind. Robert Fricke, Emmy Noether, and Öystein Ore, Eds. Vol. 1 (vi + 398 pp.); vol. 2 (iv + 508 pp.). \$25. Chelsea, New York, 1969. Reprint, three volumes in two, of the first edition, 1930-1932.

**A Guide to Site and Environmental Planning.** Harvey M. Rubenstein. Wiley, New York, 1969. xii + 196 pp., illus. \$14.95.

**Guide to the Laboratory Diagnosis of Smallpox for Smallpox Eradication Programmes.** World Health Organization, Geneva, 1969 (U.S. distributor, American Public Health Association, New York). 48 pp., illus. Paper, \$2.75.

**High Temperature Resistant Polymers.** A. H. Frazer. Interscience (Wiley), New York, 1968. xiv + 388 pp., illus. \$17.50. Polymer Reviews, vol. 17.

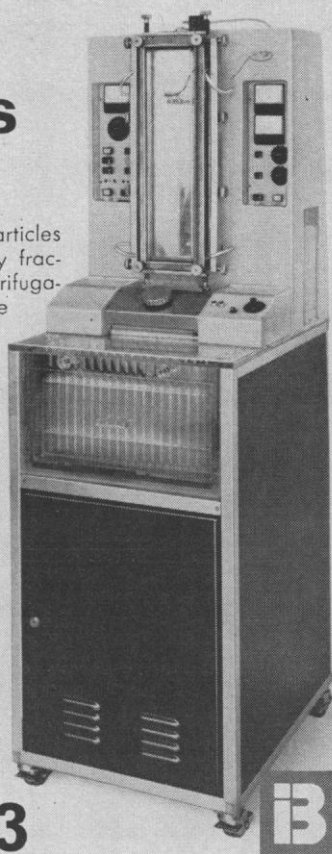
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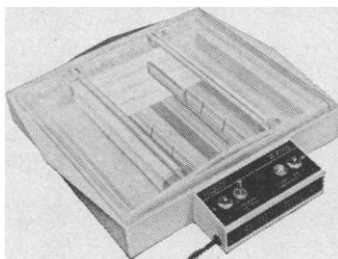


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## BOOKS RECEIVED

(Continued from page 385)

**A History of Japanese Astronomy.** Chinese Background and Western Impact. Shigeru Nakayama. Harvard University Press, Cambridge, Mass., 1969. xvi + 334 pp., illus. \$10. Harvard-Yenching Institute Monograph Series, vol. 18.

**Houdini. The Untold Story.** Milbourne Christopher. Crowell, New York, 1969. vi + 282 pp. + 32 plates. \$6.95.

**How To Manage Your Information.** Bart E. Holm. Illustrated by Ned Beard. Reinhold, New York, 1968. viii + 296 pp. \$10.

**How To Teach Mathematics in Secondary Schools.** Herbert Fremont. Saunders, Philadelphia, 1969. xviii + 574 pp., illus. \$10.50. Saunders Science Teaching Series.

**Importance of Fundamental Principles in Drug Evaluation.** Proceedings of a symposium of the American Pharmaceutical Association, 1968. David H. Tedeschi and Ralph E. Tedeschi, Eds. Raven, New York, 1968. xvi + 496 pp., illus. \$18.95.

**Induction and Intuition in Scientific Thought.** Peter Brian Medawar. American Philosophical Society, Philadelphia, 1969. xii + 64 pp. \$2. Jayne Lectures for 1968. Memoirs of the American Philosophical Society, vol. 75.

**An Introduction to Chemical Energetics.** J. J. Thompson. Houghton Mifflin, Boston, 1968. x + 110 pp., illus. Paper, \$1.75. Concepts in Chemistry.

**An Introduction to Hominology.** The Study of the Whole Man. Theodore C. Kahn, Thomas, Springfield, Ill., 1969. xvi + 368 pp., illus. \$12.50.

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**Introduction to the Thermodynamics of Charged Polarized Layers.** A. Sanfeld. Interscience (Wiley), New York, 1968. xxiv + 264 pp., illus. \$11. Monographs in Statistical Physics and Thermodynamics, vol. 10.

**Invention, Discovery, and Creativity.** A. D. Moore. Anchor (Doubleday), Garden City, N.Y., 1969. xiv + 186 pp. + 10 plates. Cloth, \$4.95; paper, \$1.45 Science Study Series.

**Invention of the Meteorological Instruments.** W. E. Knowles Middleton. Johns Hopkins Press, Baltimore, 1969. xiv + 370 pp., illus. \$12.

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**Leopold Kronecker's Werke.** In five volumes. K. Hensel, Ed. Vol. 1 (xii + 486 pp.); vol. 2 (vi + 550 pp.); vol. 3

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(viii + 218 pp.); vol. 4 (viii + 510 pp.); vol. 5 (viii + 528 pp.). \$59.50. Chelsea, New York, 1968. Reprint of the first edition, 1895-1930.

**Macromolecules and the Function of the Neuron.** Proceedings of the International Symposium on Metabolism of Nucleic Acids and Proteins and the Function of the Neuron, Prague, 1967. Z. Lodin and S. P. R. Rose, Eds. Interscience (Wiley), New York; Excerpta Medica Foundation, Amsterdam, 1968. xvi + 400 pp., illus. \$31.

**Manpower Needs for National Goals in the 1970's.** Leonard A. Lecht. Praeger, New York, 1969. xxxii + 184 pp. \$7.50.

**Mathematical Aspects of Seismology.** Markus Bath. Elsevier, New York, 1968. xii + 416 pp., illus. \$29.50. Developments in Solid Earth Geophysics, vol. 4.

**Mathematics: The Man-Made Universe.** An Introduction to the Spirit of Mathematics. Sherman K. Stein. Freeman, San Francisco, ed. 2, 1969. xviii + 418 pp., illus. \$8.25. Mathematics Series.

**Microbial Life.** W. R. Sistrom. Holt, Rinehart and Winston, New York, ed. 2, 1969. x + 150 pp., illus. Paper, \$2.95. Modern Biology Series.

**The Microscope Past and Present.** S. Bradbury. Pergamon, New York, 1968. x + 274 pp., illus. Cloth, \$4; paper, \$2.40. Pergamon International Popular Science Series. Abridgement, with additions, of *The Evolution of the Microscope* (1967).

**Mineralogy in Soil Science and Engineering.** A symposium, Washington, D.C., 1967. George W. Kunze, J. L. White, and Richard H. Rust, Eds. Soil Science Society of America, Madison, Wis., 1968. x + 106 pp., illus. Paper, \$3. SSSA Special Publication No. 3.

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**The Mössbauer Effect.** A symposium, London, 1967. Faraday Society, London, 1968 (U.S. distributor, Plenum, New York). 140 pp., illus. \$8.50. Symposia of the Faraday Society, No. 1, 1967.

**Nuclear Quadrupole Coupling Constants.** E. A. C. Lucken. Academic Press, New York, 1969. x + 362 pp., illus. \$14.50.

**The Observation of Atomic Collisions in Crystalline Solids.** R. S. Nelson. North-Holland, Amsterdam; Interscience (Wiley), New York, 1968. xiv + 282 pp., illus. \$16.50. Defects in Crystalline Solids, vol. 1.

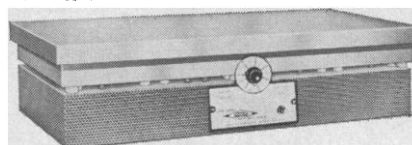
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**Permian to Palaeocene Calcareous Algae (Dasycladaceae) of the Middle East.** Graham Francis Elliott. British Museum, London, 1968. Illus. Paper, £5 2s 6d. Bulletin of the British Museum (Natural History), Geology, Supplement 4, 112 pp. + 24 plates.

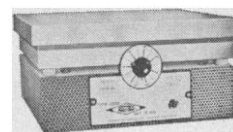
**Perspectives in Reproduction and Sexual Behavior.** A symposium, San Francisco, 1966. Milton Diamond, Ed. Indiana University Press, Bloomington, 1968. x + 534 pp., illus. \$20.

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Reese Sady. Teachers College Press, Columbia University, New York, 1969. xii + 100 pp. Paper, \$2.95. Anthropology and Education Series.

**Photobiology.** Jerome J. Wolken. Reinhold, New York, 1969. xiv + 114 pp., illus. Paper, \$2.25. Selected Topics in Modern Biology.

**Physical Acoustics. Principles and Methods.** Vol. 5. Warren P. Mason, Ed. Academic Press, New York, 1968. xviii + 302 pp., illus. \$14.50.

**The Physical Sciences.** E. J. Cable, R. W. Getchell, W. H. Kadesch, Willard J. Poppy, and Leland L. Wilson. Prentice-Hall, Englewood Cliffs, N.J., ed. 5, 1969. xviii + 582 pp., illus. \$9.95.

**Physikalisch-Mathematische Monographien.** W. v. Ignatowsky. Chelsea, New York, 1968. xiv + 120 pp. \$5.50. Reprint, in one volume, of three volumes of the series "Works of the Steklov Institute for Physico-Mathematical Sciences of the Academy of Sciences of the U.S.R.R." (1932-33).

**La Physique des Milieux Ionisés.** Publié avec le Concours du Centre National de la Recherche Scientifique. Presses Universitaires de France, Paris, 1968. iv + 248 pp., illus. Paper, 35 F. Colloque C3 de la Société Française de Physique. Journal de Physique, vol. 29, supplement to No. 4.

**Progress in Biophysics and Molecular Biology.** Vol. 18. J. A. V. Butler and D. Noble, Eds. Pergamon, New York, 1968. viii + 328 pp., illus. \$18.

**Properties and Reactions of Bonds in Organic Molecules.** K. F. Reid. Elsevier, New York, 1968. xiv + 562 pp., illus. \$9.75.

**Properties of Matter Under Unusual Conditions.** In Honor of Edward Teller's 60th Birthday. Hans Mark and Sidney Fernbach, Eds. Interscience (Wiley), New York, 1969. x + 390 pp., illus. \$19.50.

**Protest in the Sixties.** Joseph Boskin and Robert A. Rosenstone, Eds. American Academy of Political and Social Science, Philadelphia, 1969. x + 220 pp. Cloth, \$4; paper, \$3. *Annals of the American Academy of Political and Social Science*, vol. 382.

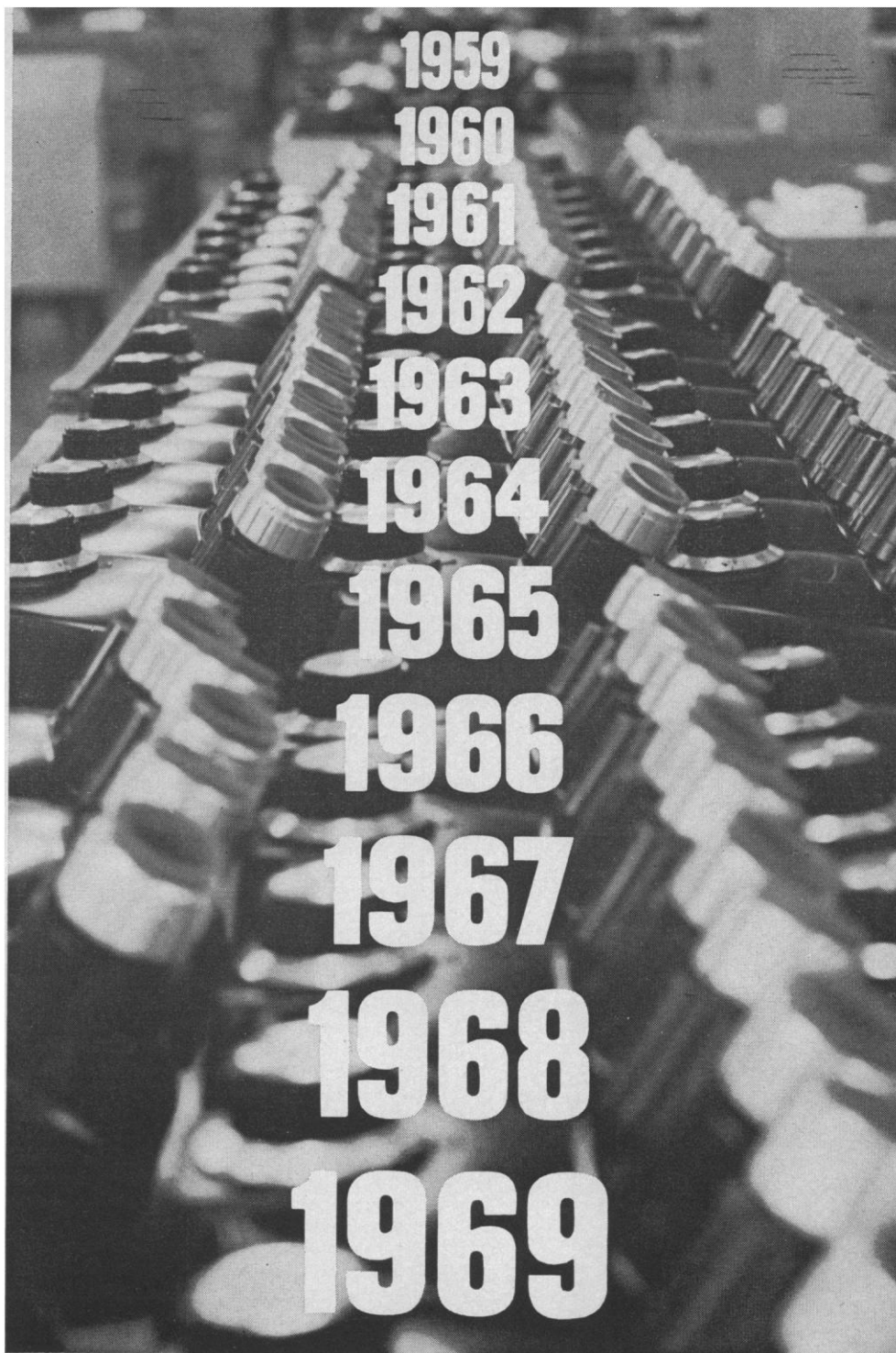
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**Real-time Data-processing Systems.** A Methodology for Design and Cost/Performance Analysis. Saul Stimler. McGraw-Hill, New York, 1969. x + 262 pp., illus. \$13.50.

**The Rise and Fall of T. D. Lysenko.** Zhores A. Medvedev. Translated from the Russian by I. Michael Lerner, with the editorial assistance of Lucy G. Lawrence. Columbia University Press, New York, 1969. xx + 284 pp., illus. \$10.

**Science a Road to Wisdom.** Collected Philosophical Studies. Evert W. Beth. Translated from the Dutch edition (Assen, Holland, 1964) by Peter Wesly. Reidel, Dordrecht, Holland; Humanities Press, New York, 1969. xiv + 126 pp. \$9.

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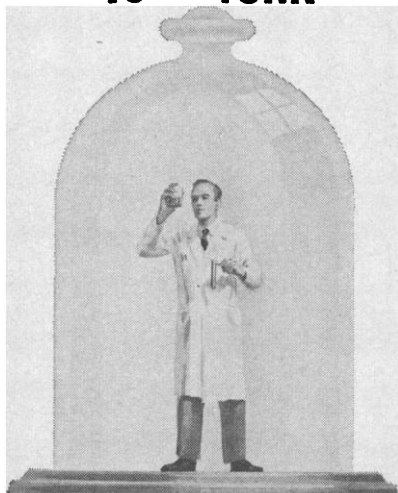
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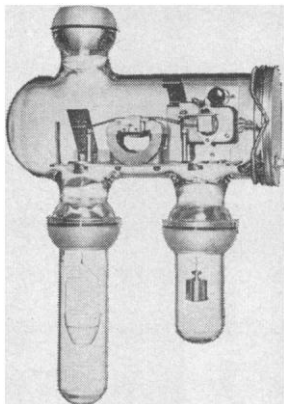
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National Information Network. Rowan A. Wakefield, Walter F. Dunne, and Frederick Kirch. Research Foundation of State University of New York, Albany, 1969 (distributor, Communication Service Corporation, Washington, D.C.). x + 122 pp., illus. Cloth, \$5.50; paper, \$3.50.

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**Studies in Feedback-Shift-Register Synthesis of Sequential Machines.** Robert L. Martin. M.I.T. Press, Cambridge, 1969. xx + 204 pp., illus. \$12. Research Monograph No. 50.

**Studies on Fossil Plants.** K. L. Alvin, P. D. W. Barnard, and W. G. Chaloner, Eds. Published for the Linnean Society of London by Academic Press, New York, 1968. vi + 228 pp., illus. + plates. \$12.50. *Journal of the Linnean Society of London (Botany)*, vol. 61, No. 384.

**The Subversive Science.** Essays Toward an Ecology of Man. Paul Shepard and Daniel McKinley, Eds. Houghton Mifflin, Boston, 1969. x + 454 pp., illus. \$8.95.

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**The Venezuela Earthquake July 29, 1967.** Robert D. Hanson and Henry J. Degenkolb. American Iron and Steel Institute, New York, 1969. 176 pp., illus. \$2.

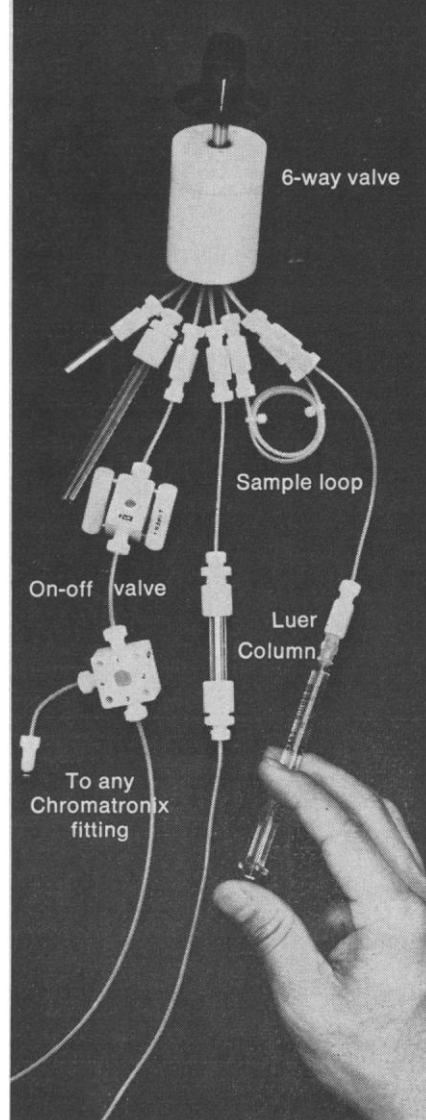
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**William Henry Welch and the Heroic Age of American Medicine.** Simon Flexner and James Thomas Flexner. Dover, New York, 1966. x + 552 pp., illus. Paper, \$3. Reprint of the 1941 edition.

**World Prehistory.** A New Outline. Grahame Clark. Cambridge University Press, New York, ed. 2, 1969. xviii + 334 pp., illus. + 17 plates. Cloth, \$7.50; paper, \$2.95.

**The Zoology of Tropical Africa.** J. L. Cloudsley-Thompson. Norton, New York, 1969. xvi + 356 pp., illus. + 16 plates. \$12.50. World Naturalist Series.

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