

wasps, is of special interest and in a number of ways thought-provoking, especially in regard to the fine line, if any, that delimits instinctive and intelligent behavior.

The book will be of special value to students of insect behavior and bionomics and to those studying evolution and phylogeny, and it should be an inspiration to anyone confronted with a paucity of information about a large and complicated subject. The need for additional work is emphasized, the critical areas are indicated, and the author's interpretation of various behavioral patterns is stimulating. It is well organized and written and is liberally illustrated with drawings, pictures, and charts. There are 47 tables and 215 figures.

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Russian Papers

The most noticeable characteristic of **Atomic Collisions: The Theory of Electron-Atom Collisions** (V. Ya. Veldre, R. Ya. Damburg, and R. K. Peterkop, Eds.; M. V. Kurepa, Transl. M.I.T. Press, Cambridge, Mass., 1966. 143 pp., illus. \$7.50), an English version of volume 13 of the *Transactions of the Latvian Academy of Sciences (U.S.S.R.)*, is the translation, which is awkward, unidiomatic, and in many places inaccurate. On almost every page a word or a phrase comes gratingly to the fore to remind the reader that the translator does not possess a full command of the English language.

This of course should not, and would not, be an overriding criticism of a collection of scientific articles, were the contents themselves of sufficient value. And, indeed, out of a total of 16 articles, 3 can be described as first rate and several others are of more than passing interest. The difficulty here lies in the fact that almost all of the valuable articles have already appeared (in a somewhat modified form, perhaps) in English-language journals or in Russian journals which are regularly translated. Thus an article by Damburg and Peterkop which introduces the *M* matrix into atomic physics is virtually identical to their 1962 article in the *Proceedings of the Physical Society (London)*. In this latter form, however, the paper is very well known, so that the presently translated version really

serves no useful purpose. The same can be said of an article by Gailitis on the behavior of cross sections near the threshold for new reactions in the presence of Coulomb forces. If the subsequent *JETP* article is not as well known, it is only because most of the results were previously known from papers of Baz and of Newton and Fonda. A close coupling calculation of electron-hydrogen scattering above the inelastic threshold by Damburg and Peterkop is in a somewhat different category in that, even though a short summary was published in the *Proceedings of the Physical Society*, the present results are much more extensively tabulated and show that this Russian work deserves as much credit as more widely quoted English and American papers. There are a couple of papers by Gailitis on ionic excitation by electron impact which merit wider circulation. A paper of Vainstein which attempts to justify the types of truncation in the adiabatic polarization potential used by some of us is of reasonable importance. For most of the rest, however, I must say that the papers are interim in character and would only have been of value if the translated version had appeared, say, 2 years earlier.

One unintended bonus of the crude translation and provisional nature of many of the articles is that an outsider is thereby given the "flavor" of research in an outstanding Soviet center for theoretical investigation of electronic collisions.

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Note

The Report of the International Clearinghouse on Science and Mathematics Curricular Developments, 1966, compiled under the direction of J. David Lockard as a joint project of the AAAS and the Science Teaching Center at the University of Maryland (311 pp., paper. Available from J. D. Lockard, Science Teaching Center, University of Maryland, College Park), presents data about curriculum projects for elementary and secondary schools all over the world, and about college commissions and science and mathematics materials from state and local school systems in the United States. The volume is the first of a projected annual series.

New Books

Advances in Enzyme Regulation, vol. 4. Proceedings of the fourth symposium on Regulation of Enzyme Activity and Synthesis in Normal and Neoplastic Tissues (Indianapolis, Ind.), October 1965. George Weber, Ed. Pergamon, New York, 1966. 395 pp. Illus. \$15. Twenty papers.

Advances in Tracer Methodology, vol. 3. A collection of papers presented at the Ninth and Tenth Symposia on Tracer Methodology (San Francisco and Zürich), October 1964 and March 1965. Seymour Rothchild, Ed. Plenum Press, New York, 1966. 343 pp. Illus. \$12.50. Thirty-three papers.

Agricultural Development of Taiwan, 1903-1960. Yhi-Min Ho. Vanderbilt Univ. Press, Nashville, Tenn., 1966. 184 pp. Illus. \$7.50.

Alcohol and Food in Health and Disease (*Ann. N.Y. Acad. Sci.* 133). Edward M. Weyer, Ed. New York Acad. of Sciences, New York, 1966. 95 pp. Illus. Paper. Twelve papers presented at a conference in January 1966.

Analysis and Synthesis of Tunnel Diode Circuits. J. O. Scanlan. Wiley, New York, 1966. 282 pp. Illus. \$9.75.

The Analytic S Matrix: A Basis for Nuclear Democracy. Geoffrey F. Chew. Benjamin, New York, 1966. 115 pp. Illus. \$7.50.

Annual Review of Phytopathology, vol. 4. James G. Horsfall and Kenneth F. Baker, Eds. Annual Reviews, Palo Alto, Calif., 1966. 433 pp. Illus. \$8.50. Eighteen papers.

Antennas. Lamont V. Blake. Wiley, New York, 1966. 429 pp. Illus. \$6.95.

Applied Queueing Theory. Alec M. Lee. Macmillan, London; St. Martin's Press, New York, 1966. 256 pp. Illus. \$8.50.

Approaches to Psychopathology. James D. Page, Ed. Columbia Univ. Press, New York, 1966. 318 pp. \$7.50. Thirteen papers.

The Astronomical and Mathematical Foundations of Geography. Charles H. Cotter. Elsevier, New York, 1966. 254 pp. Illus. \$7.

Atomic Energy and Southern Science. William G. Pollard. Oak Ridge Associated Universities, Oak Ridge, Tenn., 1966. 147 pp. Illus. Paper.

Axenic Cultures and Defined Media (*Ann. N.Y. Acad. Sci.* 139). Edward M. Weyer, Ed. New York Acad. of Sciences, New York, 1966. 272 pp. Illus. Paper, \$8. Twenty-one papers.

Basic Concepts of Anatomy and Physiology: A Programmed Study. W. B. Dean, G. E. Farrar, Jr., and A. J. Zoldos. Lippincott, Philadelphia, 1966. 352 pp. Illus. Paper, \$4.50.

Basic Endocrinology for Students of Biology and Medicine. J. H. U. Brown and S. B. Barker. Davis, Philadelphia, ed. 2, 1966. 229 pp. Illus. Paper, \$4.50.

Building with Large Prefabricates. Bohdan Lewicki. Elsevier, New York, 1966. 460 pp. Illus. \$25.

Business Environment in an Emerging Nation: Profiles of Indonesian Economy. Rossall J. Johnson, Dale L. McKeen, and Leon A. Mears. Northwestern Univ. Press, Evanston, Ill., 1966. 354 pp. Illus. \$8.50.

(Continued on page 1486)

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NEW BOOKS

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Brain Physiology and Psychology. C. R. Evans and A. D. J. Robertson, Eds. Univ. of California Press, Berkeley, 1966. 288 pp. Illus. Paper, \$5. Fifteen papers.

Calculus and Analytic Geometry. Jack R. Britton, R. Ben Krieger, and Leon W. Rutland. Freeman, San Francisco, 1966. 1083 pp. Illus. \$12.50.

The Cause of Behavior II: Readings in Child Development and Educational Psychology. Judy F. Rosenblith and Wesley Allinsmith, Eds. Allyn and Bacon, Boston, ed. 2, 1966. 624 pp. Illus. Paper, \$6.50.

Central Asians under Russian Rule: A Study in Culture Change. Elizabeth E. Bacon. Cornell Univ. Press, Ithaca, N.Y., 1966. 291 pp. Illus. \$6.50.

Challenge to Science: The UFO Enigma. Jacques Vallee and Janine Vallee. Regnery, Chicago, 1966. 286 pp. Illus. \$5.95.

Characteristics and Limitations of Transistors. Richard D. Thornton, David DeWitt, Paul E. Gray, and E. R. Chenette. Wiley, New York, 1966. 194 pp. Illus. Paper, \$2.65; cloth, \$4.50. Semiconductor Electronics Education Committee, vol. 4.

Chemical Engineering in Medicine. Edward F. Leonard, Ed. American Inst. of Chemical Engineers, New York, 1966. 157 pp. Illus. Paper. There are 13 papers given at symposia held in 1964 and 1965.

Chemistry of the Earth's Crust. vol. 1. Proceedings of the Geochemical Conference commemorating the centenary of V. I. Vernadskii's birth. Translated from the Russian edition (Moscow, 1963) by N. Kaner. R. Amols, Translation Ed. Israel Program for Scientific Translations, Jerusalem; Davey, New York, 1966. 464 pp. Illus. \$17.75. Twenty-nine papers.

The Chromosome: Structural and Functional Aspects. A symposium (Miami), June 1965. Clyde J. Dawe, Ed. Tissue Culture Assoc., Durham, N.C., 1966. 123 pp. Illus. \$6. Eight papers.

The College Dropout and the Utilization of Talent. Lawrence A. Pervin, Louis E. Reik, and Willard Dalrymple, Eds. Princeton Univ. Press, Princeton, N.J., 1966. 268 pp. Illus. \$6.50. Eleven papers.

The Condensed Chemical Dictionary. Arthur Rose and Elizabeth Rose. Reinhold, New York, ed. 7, 1966. 1066 pp. \$17.50.

Culture and Ethnology. Robert H. Lowie. Basic Books, New York, 1966. 203 pp. Paper, \$2.45; cloth, \$5.95. Classics in Anthropology.

Decision and Control: The Meaning of Operational Research and Management Cybernetics. Stafford Beer. Wiley, New York, 1966. 568 pp. Illus. \$13.50.

Deep Challenge. Harris B. Stewart, Jr. Van Nostrand, Princeton, N.J., 1966. 218 pp. Illus. \$5.95.

Determining Forces in Collective Wage Bargaining. Harold M. Levinson. Wiley, New York, 1966. 295 pp. \$8.95.

Development in Flowering Plants. John G. Torrey. Macmillan, New York, 1966. 192 pp. Illus. Paper, \$1.95. Current Concepts in Biology Series.

The Development of High-Energy Accelerators. M. Stanley Livingston, Ed. Dover, New York, 1966. 331 pp. Illus.

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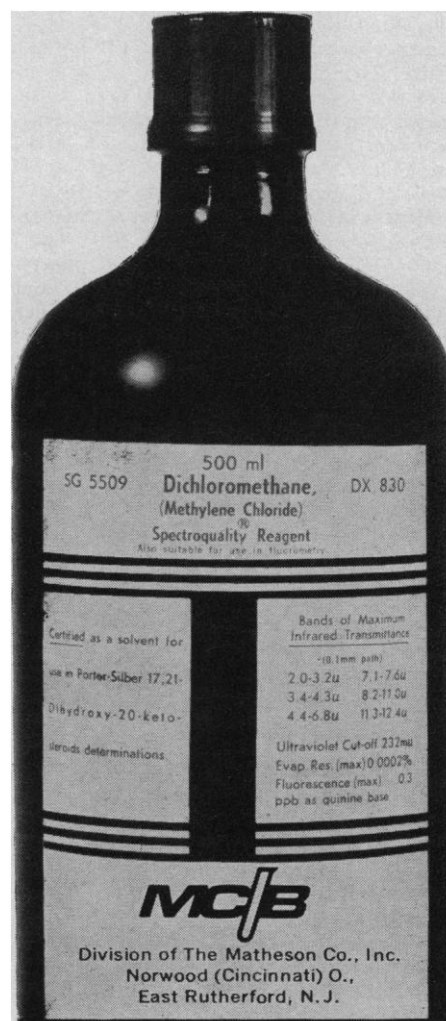
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Paper, \$2.50. Classics of Science Series, vol. 3. Twenty-eight papers.

Directory of the International Association for Plant Physiology. International Assoc. for Plant Physiology, New Haven, Conn., 1966 (available from A. W. Galston, Yale Univ., New Haven, Conn.). 151 pp. Paper, \$1. Contains a list of all members in the Association's 15 constituent national organizations.

Divisiveness and Social Conflict: An Anthropological Approach. Alan R. Beals and Bernard J. Siegel. Stanford Univ. Press, Stanford, Calif., 1966. 199 pp. \$6.

Drug Adulteration: Detection and Control in Nineteenth-Century Britain. Ernst W. Stieb. Univ. of Wisconsin Press, Madison, 1966. 351 pp. Illus. \$7.50.

Economic Behavior of the Affluent. Robin Barlow, Harvey E. Brazier, and James N. Morgan. Brookings Institution, Washington, D.C., 1966. 299 pp. Illus. \$6.75.

Educated American Women: Self-Portraits. Eli Ginzberg and Alice M. Yohalem. Columbia Univ. Press, New York, 1966. 212 pp. \$5.95.

Electrical Machine Theory. Morris Jevons. Elsevier, New York, 1966. 383 pp. Illus. \$15.75.

Electron Microscopy. A handbook for biologists. E. H. Mercer and M. S. C. Birbeck. Davis, Philadelphia, ed. 2, 1966. 112 pp. Illus. \$2.50.

Elementary Practical Organic Chemistry. pt. 2, *Qualitative Organic Analysis*. Arthur I. Vogel. Wiley, New York, ed. 2, 1966. 447 pp. Illus. \$5.75.

Experimental Primary Myopathies and Their Relationship to Human Muscle Diseases (*Ann. N.Y. Acad. Sci.* 138). Edward M. Weyer, Ed. New York Acad. of Sciences, New York, 1966. 366 pp. Illus. Paper, \$10. Twenty-three papers given at a conference in November 1965.

Explorations in Typing Psychotics. Maurice Lorr, Ed. Pergamon, New York, 1966. 249 pp. Illus. \$9.25. Nine papers.

Fluidics. Eugene F. Humphrey and Dave H. Tarumoto, Eds. Fluid Amplifier Associates, Boston, Mass., 1965. 284 pp. Illus. \$28.

Foundations of Immunochemistry. Eugene D. Day. Williams and Wilkins, Baltimore, 1966. 223 pp. Illus. \$8.50.

Foundations of Physical Science. William Ramsey, Clifford R. Phillips, Jr., and Frank M. Watenpaugh. Holt, Rinehart, and Winston, New York, 1966. 410 pp. Illus. \$6.08.

Franklin and Newton: An Inquiry into Speculative Newtonian Experimental Science and Franklin's Work in Electricity as an Example Thereof. I. Bernard Cohen. Published for the American Philosophical Society. Harvard Univ. Press, Cambridge, Mass., 1966. 683 pp. \$6.

Frontiers in Food Research, Proceedings (Ithaca, N.Y.), April 1966. Cornell Univ. Graduate Field of Food Science and Technology, Ithaca, N.Y., 1966 (available from W. F. Shipe, Stocking Hall, Cornell Univ., Ithaca, N.Y. 14850). 144 pp. Illus. Paper, \$4. Fourteen papers.

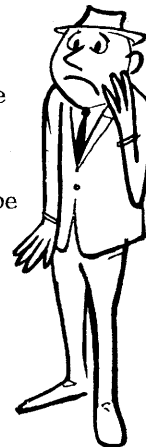
Gastrin. Proceedings of a conference, September 1964, sponsored by the School of Medicine, Univ. of California, Los Angeles. Morton I. Grossman, Ed. Univ. of California Press, Berkeley, 1966. 363 pp.

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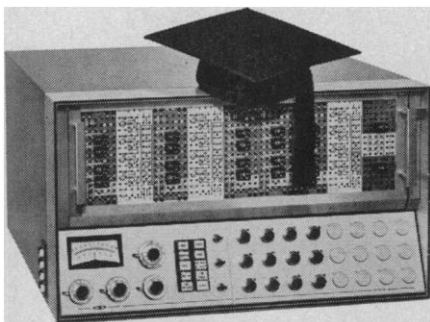
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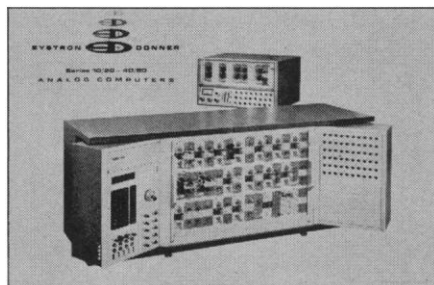


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Illus. \$12. UCLA Forum in Medical Sciences, No. 5.

Growth without Development: An Economic Survey of Liberia. Robert W. Clower, George Dalton, Mitchell Harwitz, and A. A. Walters. Northwestern Univ. Press, Evanston, Ill., 1966. 401 pp. Illus. \$12.50.

Handbook of Basic Transistor Circuits and Measurements. R. D. Thornton, J. G. Linvill, E. R. Chenette, H. L. Ablin, J. N. Harris, A. R. Boothroyd, J. Willis, and C. L. Searle. Wiley, New York, 1966. 174 pp. Illus. Paper, \$2.65; cloth, \$4.50. Semiconductor Electronics Education Committee Books, vol. 7.

Handbook of Logic. E. R. Emmet. Philosophical Library, New York, 1966. 246 pp. \$4.75.

The Hepaticae and Anthocerotae of North America: East of the Hundredth Meridian. vol. 1. Rudolf M. Schuster. Columbia Univ. Press, New York, 1966. 822 pp. Illus. \$20.

Herbicides in British Fruit Growing. A symposium (London), February 1966. J. D. Fryer, Ed. Blackwell, Oxford, England; Davis, Philadelphia, 1966. 163 pp. Illus. Paper, \$8.50. Eleven papers.

How Natives Think. Lucien Lévy-Bruhl. Washington Square Press, New York, 1966. 388 pp. Paper, \$1.45.

Intelligence: Perspectives 1965. Orville G. Brim, Jr., Richard S. Crutchfield, and Wayne H. Holtzman. Harcourt, Brace, and World, New York, 1966. 111 pp. \$3.75. Terman-Otis Memorial Lectures.

Interdisciplinary Investigation of Mucus Production and Transport (*Ann. N.Y. Acad. Sci.* 130). Edward M. Weyer, Ed. New York Acad. of Sciences, New York, 1966. 105 pp. Illus. Paper, \$4. Thirteen papers.

Juvenile Delinquency: A Book of Readings. Rose Giallombardo. Wiley, New York, 1966. 575 pp. Paper, \$4.95; cloth, \$8.95. Forty-four papers.

The Life and Death of a Satellite. Alfred Bester. Little, Brown, Boston, 1966. 253 pp. Illus. \$5.95.

Living Control Systems. L. E. Baylis. Freeman, San Francisco, 1966. 199 pp. Illus. \$5.

Manpower Policies for Youth. Eli E. Cohen and Louise Kapp, Eds. Columbia Univ. Press, New York, 1966. 174 pp. \$5. Fourteen papers from a symposium sponsored by the National Committee on Employment of Youth (Washington, D.C.), September 1964.

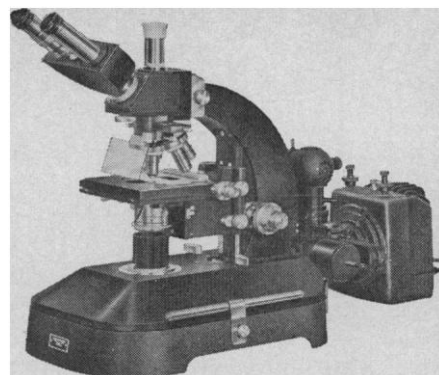
Market Structure of the Agricultural Industries. John R. Moore and Richard G. Walsh, Eds. Iowa State Univ. Press, Ames, 1966. 430 pp. Illus. \$7. Fifteen papers.

Mass Spectrometry: Theory and Applications. R. Jayaram. Plenum Press, New York, 1966. 239 pp. Illus. \$12.50.

Matter and Energy: The Foundations of Modern Physics. James H. MacLachlan, K. G. McNeill, and John M. Bell. Noble and Noble, New York, 1966. 416 pp. Illus.

Morphogenesis: The Analysis of Molluscan Development. Chr. P. Raven. Pergamon, New York, ed. 2, 1966. 379 pp. Illus. Paper, \$5.75. International Series of Monographs on Pure and Applied Biology.

Motivated Learning: A Developmental Study from Birth to the Senium. Miriam E. Hebrun. Methuen, London; Barnes and Noble, New York, 1966. 264 pp. \$6.25.



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Natürliche Proteinase-Inhibitoren. Rosemarie Vogel, Ivar Trautschol, and Eugen Werle. Thieme, Stuttgart, Germany, 1966 (order from Intercontinental Medical Book Corp., New York). 118 pp. Illus.

On Growth and Form. D'Arcy Wentworth Thompson. Cambridge Univ. Press, New York, abridged edition, 1966. 359 pp. Illus. Paper, \$2.45.

Physical Science: Its Structure and Development. vol. 1, *From Geometric Astronomy to the Mechanical Theory of Heat.* Edwin C. Kemble. M.I.T. Press, Cambridge, Mass., 1966. 520 pp. Illus. Paper, \$7.95.

The Psychoanalytic Revolution. Sigmund Freud's life and achievement. Marthe Robert. Translated from the French edition (Paris, 1964) by Kenneth Morgan. Harcourt, Brace, and World, New York, 1966. 396 pp. \$6.95.

The Quest for Absolute Zero: The Meaning of Low Temperature Physics. K. Mendelssohn. McGraw-Hill, New York, 1966. 256 pp. Illus. Paper, \$2.45.

Race, Evolution, and Mankind. Robert L. Lehrman. Basic Books, New York, 1966. 288 pp. Illus. \$5.95. Science and Discovery Series.

The Regional City. An Anglo-American discussion of metropolitan planning. Derek Senior, Ed. Aldine, Chicago, 1966. 206 pp. Illus. \$7.50. Eight papers.

The Rise and Development of Western Civilization. vol. 1. John L. Stipp, C. Warren Hollister, and Allen W. Dirrim. Wiley, New York, 1966. 665 pp. Illus. \$8.95.

Secular Variations of the Atmospheric Circulation Since 1750. H. H. Lamb and A. I. Johnson. Her Majesty's Stationery Office, London, 1966. 127 pp. Illus. Geophysical Memoirs, No. 110.

Societies: Evolutionary and Comparative Perspectives. Talcott Parsons. Prentice Hall, Englewood Cliffs, N.J., 1966. 128 pp. Illus. Paper, \$1.50; cloth, \$3.95. Foundations of Modern Sociology Series.

Soviet Sociology: Historical Antecedents and Current Appraisals. Alex Simirenko, Ed. Quadrangle Books, Chicago, 1966. 384 pp. \$7.95.

Surgical Bleeding. Handbook for medicine, surgery, and specialties. Alex W. Ulin and Seymour S. Gollub, Eds. McGraw-Hill, New York, 1966. 562 pp. Illus. \$23.50.

Telescopes: How To Make Them and Use Them. Thornton Page and Lou Williams Page, Eds. Macmillan, New York, 1966. 352 pp. Illus. \$7.95. Macmillan Sky and Telescope Library of Astronomy, vol. 4. There are 72 papers reprinted from *Sky and Telescope*, *The Sky*, and *The Telescope*; they were published between 1937 and 1965.

The Theory of Sets and Transfinite Numbers. B. Rotman and G. T. Kneebone. Oldbourne, London; Davey, New York, 1966. 154 pp. Illus. \$7.

Universities: British, Indian, African. A study in the ecology of higher education. Eric Ashby. Harvard Univ. Press, Cambridge, Mass., 1966. 572 pp. \$12.95.

Welfare and Planning: An Analysis of Capitalism versus Socialism. Heinz Köhler. Wiley, New York, 1966. 191 pp. Illus. Paper, \$1.95; cloth, \$4.95.

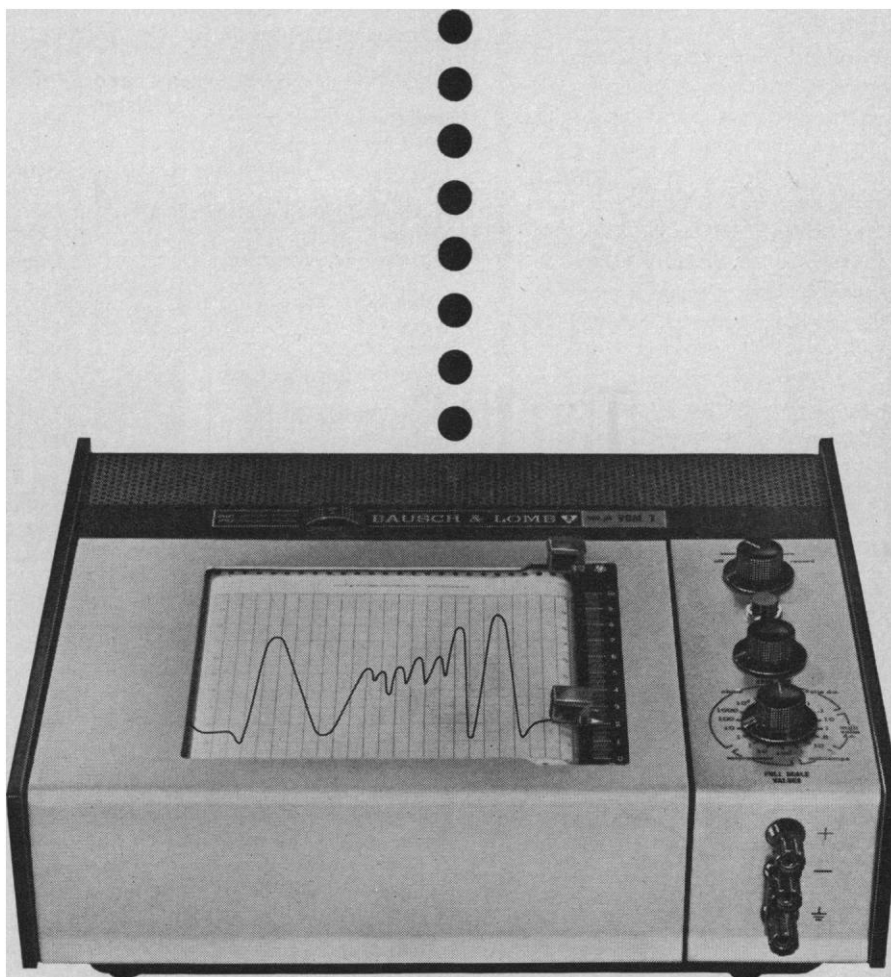
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