

instances the predicted findings do not appear and the failure is dismissed a bit too readily. Very often what is intended as a crucial test of the theory is not such because of ambiguities in the design of experiments.

One critical study where a predicted relationship did not occur leads the author to search for an explanation. He suggests that the failure to find greater disruption from maternal-censure cues might be due to the existence of two different reactions to HC-LN mothers, one an active coping style and the other an avoidance strategy. A further series of studies is done, with the perceived-parental-relations groups subdivided into what the author terms open and closed adaptation styles, which appear to him to be analogous to the modes of coping shown by "process" and "reactive" schizophrenics. This further breakdown into subgroups does prove valuable, as a number of interesting group differences are found on behavioral measures analogously related to psychopathological response styles. The book closes essentially with the revised hypothesis, that while aversive maternal control (HC-LN) is a necessary condition for schizophrenic development, there are two possible adaptations to this pattern, one closed and the other open, and that these will correlate with a social learning history associated with either a reactive-paranoid psychosis or a process-nonparanoid one.

There is much ingenuity, hard work, and ambition in this book, but it is still a developmentally oriented study carried out cross-sectionally. There are some interesting correlations between perceived maternal control and concurrent laboratory performance, but the connection is highly inferential and at times forced. It is particularly interesting that at a time when many researchers in psychopathology view familial forces from a social system perspective, Heilbrun offers a more simplified hypothesis of a disturbed, unilateral mother-child relationship. It is also interesting that while so much current research is on high-risk samples of pre-schizophrenics, because of the great difficulty of separating antecedent from consequent events, Heilbrun feels comfortable drawing etiological conclusions concerning schizophrenia from correlational data obtained on largely non-disturbed college students.

This does not mean that the desire of the author to integrate and synthesize a wide body of disparate research data

is not admirable; it is. But the attempt seems at times over-inclusive and forced, as if the really interesting pieces of information contained in the book are not a sufficient contribution to this field. The author writes as if he needs to forge a comprehensive theory of schizophrenia, but his data do not warrant the definitive theoretical conclusions he presents. He has not shown that aversive maternal control is a necessary condition for schizophrenic development. Such a theory would require far more than any one investigator might do in a lifetime. He has demonstrated that retrospective reports of parent-child relations appear to be a useful anchor in personality research. Through much ingenious experimental work and synthesis of prior literature, he can suggest the potential relevance of his findings for schizophrenic development. These suggestions may very well serve as a source of interesting hypotheses and methods for future students of schizophrenia. But as proof of a social learning theory of the etiology of schizophrenia, they are extremely limited and tangential.

MICHAEL J. GOLDSTEIN  
*Department of Psychology, University of California, Los Angeles*

## New Journals Received

**Chemical Engineering Communications.** An International Journal of Chemical Engineering and Applied Chemistry. Vol. 1, No. 1, 1973. Six issues per volume. Editor: Cornelius J. Pings (California Institute of Technology, Pasadena). Gordon and Breach Science Publishers, One Park Ave., New York, N.Y. 10016. To individuals, \$17.50; to libraries and institutions, \$49.50.

**Energy Policy.** Vol. 1, No. 1, 1973. Four issues a year. Editor: John A. G. Thomas. IPC Science and Technology Press Ltd., 32 High St., Guildford, Surrey, England. \$36.40.

**Intervirology.** The Journal of the Virology Section, International Association of Microbiological Societies. Vol. 1, No. 1, 1973. Two volumes a year. Editor: Joseph L. Melnick. S. Karger AG, Arnold-Böcklin-Strasse 25, CH-4000 Basel 11, Switzerland. Vol. 1, \$30; to members of national societies of microbiology, \$20.

**Molecular Biology Reports.** Vol. 1, No. 1, June 1973. One issue every six to eight weeks. Editor: H. Bloemendal (University of Nijmegen, the Netherlands). D. Reidel Publishing Co., P.O. Box 17, Dordrecht, Holland. Each vol., \$59.50; to individuals, \$25.50.

**Pramāṇa.** A Journal of Physics. Vol. 1, No. 1, 1973. Two volumes a year. Editor: S. Ramaseshan (National Aeronautical

Laboratory, Bangalore, India). Indian Academy of Sciences, Bangalore 560006, India. To institutions and libraries, \$30; to individuals, \$20.

## Books Received

**Academic Computers in Service.** Charles Mosmann. Jossey-Bass, San Francisco, 1973. xiv, 186 pp. \$8.50. Jossey-Bass Series in Higher Education.

**Accounting and Society.** Ralph W. Estes. Melville (Wiley), New York, 1973. xvi, 412 pp. Cloth, \$8.95; paper, \$5.95. Melville Series on Management, Accounting, and Information Systems.

**Advanced Calculus.** Wilfred Kaplan. Addison-Wesley, Reading, Mass., ed. 2, 1973. xviii, 710 pp., illus. \$15.75.

**Advances in Cancer Research.** Vol. 17. George Klein, Sidney Weinhouse, and Alexander Haddow, Eds. Academic Press, New York, 1973. xii, 448 pp., illus. \$27.50.

**Advances in Chemical Physics.** Vol. 23. I. Prigogine and Stuart A. Rice, Eds. Interscience (Wiley), New York, 1973. x, 358 pp., illus. \$22.50.

**Agricultural Adjustment in Developed Countries.** Food and Agriculture Organization of the United Nations, Rome, 1972 (U.S. distributor, Unipub, New York), xii, 204 pp., illus. Paper, \$4.

**Air Pollution.** Virginia Brodine. Harcourt Brace Jovanovich, New York, 1973. xvi, 206 pp., illus. Paper, \$3.95. Environmental Issues Series.

**Amino-Acids, Peptides, and Proteins.** Vol. 4, A Review of the Literature Published during 1971. G. T. Young, reporter. Chemical Society, London, 1972. xvi, 498 pp., illus. £9. A Specialist Periodical Report.

**Anatomy of the Chicken and Domestic Birds.** Tankred Koch. Illustrated by Erwin Rossa. Edited and Translated from the German by Bernard H. Skold and Louis DeVries. Iowa State University Press, Ames, 1973. viii, 170 pp. \$7.95.

**The Animal in Man.** Lorus and Margery Milne. Mc-Graw-Hill, New York, 1973. viii, 250 pp. \$7.95.

**Annual Review of Pharmacology.** Henry W. Elliott, Ronald Okun, and Robert George, Eds. Vol. 13. Annual Reviews, Palo Alto, Calif., 1973. viii, 520 pp. \$12.

**Arctic Life of Birds and Mammals.** Including Man. Laurence Irving. Springer-Verlag, New York, 1972. xii, 192 pp., illus. \$14.


**The Auditory Periphery.** Biophysics and Physiology. Peter Dallos. Academic Press, New York, 1973. xii, 548 pp., illus. \$32.50.

**Basic Structural Behaviour via Models.** Barry Hilson. Halsted (Wiley), New York, 1973. xiv, 114 pp., illus. \$8.50.

**Biological Psychiatry.** Joeseph Mendels, Ed. Wiley-Interscience, New York, 1973. xii, 528 pp., illus. \$24.95.

**Biology of Hydra.** Allison L. Burnett, Ed. Academic Press, New York, 1973. xvi, 466 pp., illus. \$29.

(Continued on page 1260)



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## BOOKS RECEIVED

(Continued from page 1241)

**Birth Control.** Contraception and Abortion. Harry W. Rudel, Fred A. Kincl, and Milan R. Henzl. Macmillan, New York, and Collier-Macmillan, London, 1973. xii, 372 pp., illus. Cloth, \$14.50; paper, \$9.95.

**Bone Behaviour.** Kitty Little. Academic Press, New York, 1973. xvi, 464 pp., illus. \$22.50.

**Cannabis and Its Derivatives.** Pharmacology and Experimental Psychology. Proceedings of a symposium, London, May 1972. W. D. M. Paton and June Crown, Eds. Oxford University Press, New York, 1972. xii, 198 pp., illus. \$16.

**Catalysis and Enzyme Action.** Myron L. Bender and Lewis J. Brubacher. McGraw-Hill, New York, 1973. xiv, 210 pp., illus. Cloth, \$6.95; paper, \$3.95. Chemistry-Biology Interface Series.

**Charged-Particle Reaction List.** 1948-1971. F. K. McGowan and W. T. Milner. Academic Press, New York, 1973. xviii, 548 pp. \$15. Atomic and Nuclear Data Reprints, vol. 2.

**Chemical Analysis of the Environment.** And Other Modern Techniques. Sut Ahuja, Edward M. Cohen, Theo. J. Kneip, Jack L. Lambert, and Gunter Zweig, Eds. Plenum, New York, 1973. x, 384 pp., illus. \$22.50. Progress in Analytical Chemistry, vol. 5.

**Chemical Biology.** An Introduction to Biochemistry. J. Ramsey Bronk. Macmillan, New York, and Collier-Macmillan, London, 1973. xx, 668 pp., illus. \$14.95. Macmillan Core Series in Biology.

**Chemiluminescence and Bioluminescence.** Proceedings of a conference, Athens, Ga., Oct. 1972. M. J. Cromier, D. M. Hercules, and J. Lee, Eds. Plenum, New York, 1973. xvi, 516 pp., illus. \$27.50.

**Chemistry and Physics of Carbon.** A Series of Advances. Philip L. Walker, Jr., and Peter A. Thrower, Eds. Dekker, New York, 1973. Vol. 8. xvi, 318 pp., illus. \$25.50. Vol. 9. xvi, 276 pp., illus. \$23.50. Vol. 10. xiv, 272 pp., illus. \$23.50.

**Chemotherapeutic Agents in the Study of Parasites.** Proceedings of a symposium, London, Oct. 1972. Angela E. R. Taylor and R. Muller, Eds. Blackwell, London, 1973 (U.S. distributor, Davis, Philadelphia). viii, 122 pp., illus. Paper, \$13.25. Symposia of the British Society for Parasitology, vol. 2.

**The Chilean Road to Socialism.** Proceedings of a round table, Santiago, Chile, Mar. 1972. J. Ann Zammit, Ed. University of Texas Press, Austin, and University Sussex, Brighton, England, 1973. xiv, 466 pp. \$13.50.

**Children of the Yellow Earth.** Studies in Prehistoric China. J. Gunnar Andersson. Translated from the Swedish edition. MIT Press, Cambridge, Mass., 1973. xx, 348 pp., illus. + plates. Paper, \$3.95. Reprint of the 1934 edition.

**The Chimpanzee.** Vol. 6, Anatomy and Pathology. G. H. Bourne, Ed. University Park Press, Baltimore, 1973. viii, 406 pp., illus. \$34.50.

**Class Differences and Sex Roles in American Kinship and Family Structure.** David M. Schneider and Raymond T. Smith. Prentice-Hall, Englewood Cliffs, N.J., 1973. x, 132 pp. \$8.95.

**Clinical Whole Body Counting.** Peter

# GOOD

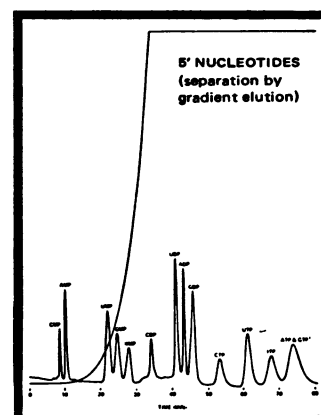
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Reizenstein. Williams and Wilkins, Baltimore, 1973. viii, 76 pp., illus. Paper, \$6.95.

**Coagulation.** Current Research and Clinical Applications. Proceedings of a symposium, Seattle, Wash., May 1972. Gottfried Schmer and Paul E. Strandjord, Eds. Academic Press, New York, 1973. xii, 238 pp., illus. \$9.

**Colloque sur les Méthodes et Tendances de la Stratigraphie.** Orsay, France, Sept. 1970. Editions du B.R.G.M., Paris, 1972. 2 Vols., illus. Vol. 1, pp. 1-520 + viii pp. Vol. 2, pp. 521-1010 + xii pp. Paper, 248.80 F.

**The Computer and Literary Studies.** Proceedings of a symposium, Edinburgh, Scotland, 1972. A. J. Aitken, R. W. Bailey, and N. Hamilton-Smith, Eds. Edinburgh University Press, Edinburgh, 1973 (U.S. distributor, Aldine-Atherton, Chicago). xii, 370 pp., illus. \$21.50.

**Computers.** Auditing and Control. Elise G. Jancura and Arnold H. Berger, Eds. Auerbach, Philadelphia, 1973. xii, 498 pp., illus. \$12.50. Auerbach Management and Communication Series.

**The Conceptual Development of Quantum Mechanics.** Max Jammer. McGraw-Hill, New York, 1973. xiv, 400 pp. Paper, \$6.95. International Series in Pure and Applied Physics. Reprint of the 1966 edition.

**Conflict, Power and Games.** The Experimental Study of Interpersonal Relations. James T. Tedeschi, Barry R. Schlenker, and Thomas V. Bonoma. Aldine, Chicago, 1973. x, 270 pp., illus. \$9.50. Aldine Treatises in Social Psychology.

**Conflict, Violence, and Morality in a Mexican Village.** Lola Romanucci-Ross. National Press, Palo Alto, Calif., 1973. xii, 204 pp., illus. Paper, \$2.95.

**Contemporary Topics in Immunobiology.** Vol. 2, Thymus Dependency. A. J. S. Davies and R. L. Carter, Eds. Plenum, New York, 1973. xvi, 368 pp., illus. \$26.

**Contemporary Topics in Molecular Immunology.** Vol. 2. R. A. Reisfeld and W. J. Mandy, Eds. Plenum, New York, 1973. xvi, 276 pp., illus. \$15.

**Cosmical Geophysics.** A Egeland, Ø. Holter, and A. Omholt, Eds. Universitetsforlaget, Oslo, Norway, 1973. 360 pp., illus. \$20.

**Crime and Insanity in England.** Vol. 2, New Solutions and New Problems. Nigel Walker and Sarah McCabe. Edinburgh University Press, Edinburgh, 1973 (U.S. distributor, Aldine-Atherton, Chicago). xvi, 316 pp. \$12.50.

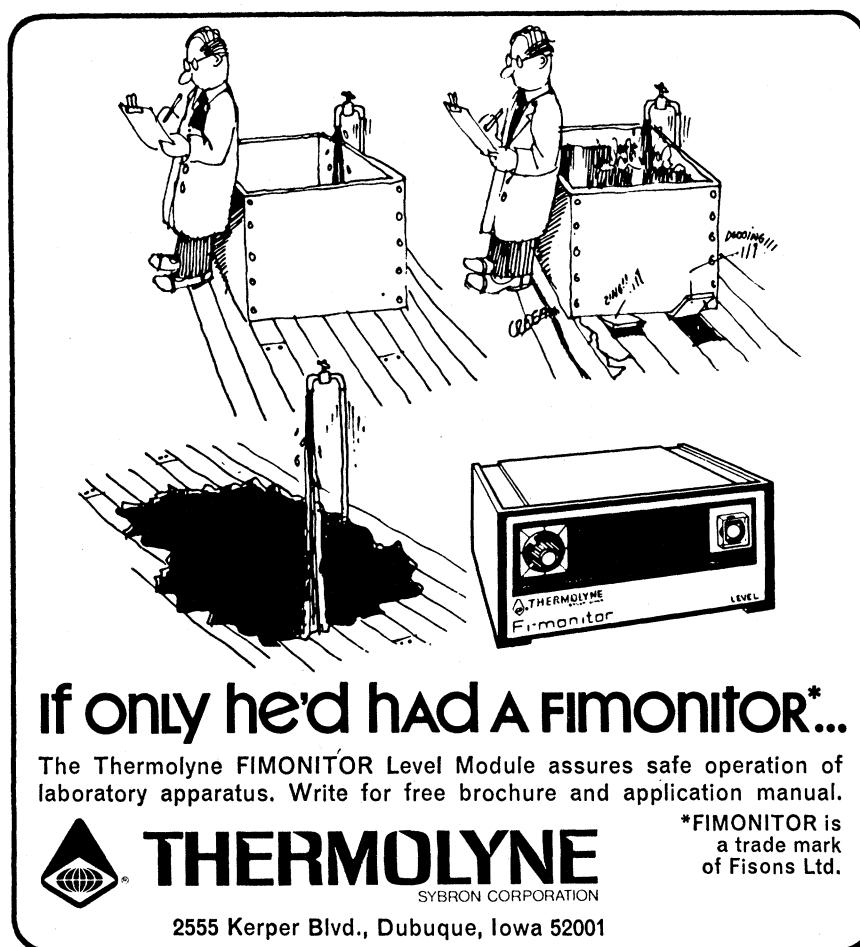
**Cristofano and the Plague.** A Study in the History of Public Health in the Age of Galileo. Carlo M. Cipolla. University of California Press, Berkeley, 1973. 118 pp., illus. \$7.50.

**Current Topics in Bioenergetics.** Vol. 5. D. Rao Sanadi and Lester Packer, Eds. Academic Press, New York, 1973. xvi, 374 pp., illus. \$24.

**Current Topics in Microbiology and Immunology.** (Ergebnisse der Mikrobiologie und Immunitätsforschung.) Vol. 61. W. Arber *et al.* Eds. iv, 212 pp., illus. \$28.90.

**Cystinosis.** Joseph D. Schulman, Ed. U.S. Public Health Service, Bethesda, Md., 1973 (available from the Superintendent of Documents, Washington, D.C.). viii, 258 pp., illus. \$3.50.

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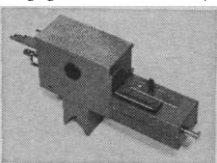
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**Darwin and His Critics.** The Reception of Darwin's Theory of Evolution by the Scientific Community. David L. Hull. Harvard University Press, Cambridge, Mass., 1973. xii, 474 pp. \$18.50.

**Data Communications for Business Information Systems.** K. J. Astin. Macmillan, New York, and Collier-Macmillan, London, 1973. xvi, 360 pp., illus. \$11.95.

**Diagnostic Virology.** An Illustrated Handbook. G. D. Hsiung. Yale University Press, New Haven, Conn., ed. 2, 1973. xiv, 174 pp., illus. \$10.

**Differential Analysis on Complex Manifolds.** R. O. Wells, Jr. Prentice-Hall, Englewood Cliffs, N.J., 1973. xii, 252 pp. \$13.95.

**Diophantine Approximation and Its Applications.** Proceedings of a conference, Washington, D.C., June 1972. Charles F. Osgood, Ed. Academic Press, New York, 1973. xii, 366 pp. \$12.50.

**The Divisor Class Group of a Krull Domain.** Robert M. Fossum. Springer-Verlag, New York, 1973. viii, 148 pp. \$16.30. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 74.

**Drug Dealers.** Taking Action. Richard H. Blum. Jossey-Bass, San Francisco, 1973. xxiv, 312 pp. \$10.75. Jossey-Bass Behavioral Science Series.

**Dynamic Aspects of Host-Parasite Relationships.** Vol. 1. Avivah Zuckerman and David W. Weiss, Eds. Academic Press, New York, 1973. xii, 228 pp., illus. \$16.

**Dynamics of the Party System.** Alignment and Realignment of Political Parties in the United States. James L. Sundquist. Brookings Institution, Washington, D.C., 1973. xiv, 388 pp., illus. Cloth, \$8.95; paper, \$3.95.

**Dynamo II User's Manual.** Including Dynamo II. Alexander L. Pugh III. MIT Press, Cambridge, Mass., ed. 4, 1973. xii, 92 pp., illus. Paper, \$3.95.

**Early Human Development.** S. J. Hutt and Corinne Hutt, Eds. Oxford University Press, New York, 1973. x, 362 pp., illus. + plates. Paper, \$9.50.

**Ecological Fantasies.** A Defense of Innovation, Science and Rational Approaches to Environmental Problems. Cy A. Adler. Green Eagle Press, New York, 1973. 336 pp., illus. \$9.95.

**Econometrics.** An Introductory Analysis. Teh-wei Hu. University Park Press, Baltimore, 1973. viii, 172 pp., illus. \$8.75.

**Economies and the Environment.** Matthew Edel. Prentice-Hall, Englewood Cliffs, N.J., 1973. x, 162 pp., illus. Cloth, \$7.95; paper, \$2.95. Foundations of Modern Economics Series.

**Ectomycorrhizae.** Their Ecology and Physiology. G. C. Marks and T. T. Kozlowski, Eds. Academic Press, New York, 1973. xvi, 444 pp., illus. \$28.50. Physiological Ecology.

**Electrical Engineering Principles and Testing Methods.** Rhys Lewis. Barnes and Noble (Harper and Row), New York, 1973. x, 290 pp., illus. \$12.50.

**Electrochemistry of Metals and Semiconductors.** The Application of Solid State Science to Electrochemical Phenomena. Ashok K. Vijh. Dekker, New York, 1973. xviii, 298 pp., illus. \$23.50. Monographs in Electroanalytical Chemistry and Electrochemistry.

**Electron Spin Resonance of Paramagnetic Crystals.** L. A. Sorin and M. V. Vlasova. Translated from the Russian edition (Kiev, 1969) by P. Gluck. Plenum, New York, 1973. xii, 254 pp., illus. \$22.50.

**Encyclopedia of Industrial Chemical Analysis.** Vol. 17, Phenols Sensory Testing Methods. Foster Dee Snell and Leslie S. Ettre, Eds. Interscience (Wiley), New York, 1973. Subscription, \$35; single copy, \$45.

**The Enzymes.** Vol. 8, Group Transfer. Part A, Nucleotidyl Transfer, Nucleosidyl Transfer, Acyl Transfer, Phosphoryl Transfer. Paul D. Boyer, Ed. Academic Press, New York, ed. 3, 1973. xx, 652 pp., illus. \$35.

**Epidemiology and Control of Schistosomiasis (Bilharziasis).** N. Ansari, Ed. Published on behalf of the World Health Organization by University Park Press, Baltimore, 1973. xviii, 752 pp., illus. \$39.50.

**Erythrocytes, Thrombocytes, Leukocytes.** Recent Advances in Membrane and Metabolic Research. Proceedings of a symposium, Vienna, June 1972. E. Gerlach, K. Moser, E. Deutsch, and W. Wilmanns, Eds. Thieme, Stuttgart, Germany, and Intercontinental Medical Book, New York, 1973. xviii, 524 pp., illus. \$41.25.

**Essays in Toxicology.** Vol. 4. Wayland J. Hayes, Jr., Ed. Academic Press, New York, 1973. xii, 218 pp., illus. \$14.

**Evolution of the Primates.** An Introduction to the Biology of Man. A. B. Chiarelli. Academic Press, New York, 1973. xii, 354 pp., illus. \$19.75.

**Experience.** An Introduction to a Personal Psychology. Joseph Lyons. Harper and Row, New York, 1973. xiv, 354 pp., illus. Paper, \$4.95. Psychology Series.

**Experience and Trends in Nuclear Law.** Proceedings of a seminar, Bangkok, Apr. 1970, and a course, Athens, Dec. 1970. International Atomic Energy Agency, Vienna, 1972 (U.S. distributor, Unipub, New York). viii, 170 pp., illus. Paper, \$6. Legal Series, No. 8.

**Experimental Methods of Hypersonics.** J. Lukasiewicz. Dekker, New York, 1973. xx, 338 pp., illus. \$24.50. Gasdynamics, vol. 3.

**The Experimental Psychology of Mental Retardation.** Proceedings of a symposium, Iowa City, Iowa, May 1970. Donald K. Routh, Ed. Aldine, Chicago, 1973. xii, 354 pp. \$10.50. Current Concerns in Clinical Psychology 5.

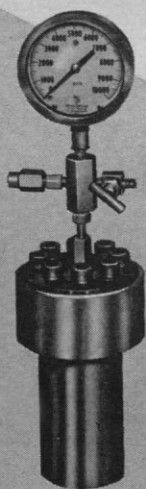
**Experiments in Physiology and Biochemistry.** Vol. 6. G. A. Kerkut, Ed. Academic Press, New York, 1973. xvi, 318 pp., illus. \$18.50.

**Explosions in Air.** Wilfred E. Baker. University of Texas Press, Austin, 1973. xii, 268 pp., illus. + graphs. \$12.50.

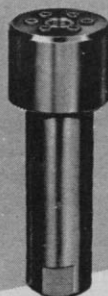
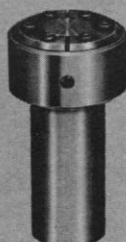
**Financing Public First-Level and Second-Level Education in the U.S.A.** W. Z. Hirsch. International Institute for Educational Planning (Unesco), Paris, 1973 (U.S. distributor, Unipub, New York). 50 pp., illus. Paper, \$2. Financing Educational Systems: Specific Case Studies 3.

**Flame Retardancy of Polymeric Materials.** Vol. 1. William C. Kuryla and A. J. Papa, Eds. Dekker, New York, 1973. xiv, 318 pp., illus. \$24.50.





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**Formal Languages.** Arto Salomaa. Academic Press, New York, 1973. xiv, 322 pp., illus. \$19. ACM Monograph Series.

**Formation, Classification and Land Evaluation of Soils in Mediterranean Areas.** With Special Reference to the Southern Lebanon. W. Verhey. Published by the author, Rozier 44, B-9000, Ghent, Belgium, 1973. viii, 122 pp., illus. + map. Paper, \$6.

**Functional Analysis.** An Introduction. Ronald Larsen. Dekker, New York, 1973. xviii, 498 pp. \$19.50. Pure and Applied Mathematics, vol. 15.

**Gas-Chromatographic Analysis of Trace Impurities.** V. G. Berezkin and V. S. Tatarinskii. Translated from the Russian edition (Moscow, 1970) by J. E. S. Bradley. Consultants Bureau (Plenum), New York, 1973. x, 178 pp., illus. \$29.50. Studies in Soviet Science.

**The Genetics of the Spermatozoon.** Proceedings of a symposium, Edinburgh, Scotland, Aug. 1971. R. A. Beatty and S. Gluecksohn-Waelsch, Eds. Published by the organizers of the symposium, Edinburgh, 1972 (available from the Librarian, Department of Genetics, University of Edinburgh). 406 pp., illus.

**Gibbon and Siamang.** Vol. 2, Anatomy, Dentition, Taxonomy, Molecular Evolution and Behavior. Duane M. Rumbaugh, Ed. Karger, New York, 1973. viii, 230 pp., illus. \$46.05.

**Graphical Enumeration.** Frank Harary and Edgar M. Palmer. Academic Press, New York, 1973. xiv, 272 pp., illus. \$14.50.

**A Guide to Probability Theory and Application.** Cyrus Derman, Leon J. Gleser, and Ingram Olkin. Holt, Rinehart and Winston, New York, 1973. xviii, 750 pp., illus. \$14.95. International Series in Decision Processes.

**Haemophilia.** Proceedings of a congress, Tehran, Iran, May 1971. F. Ala and K. W. E. Denson, Eds. Excerpta Medica, Amsterdam, 1973 (U.S. distributor, Elsevier, New York). xviii, 310 pp., illus. \$24.50. International Congress Series, No. 252.

**Hagan's Infectious Diseases of Domestic Animals.** With Special Reference to Etiology, Diagnosis, and Biologic Therapy. Dorsey William Bruner and James Howard Gillespie. Comstock (Cornell University Press), Ithaca, N.Y., ed. 6, 1973. xx, 1386 pp., illus. \$24.50.

**The Harvey Lectures.** Delivered under the Auspices of the Harvey Society of New York, 1971-1972. Academic Press, New York, 1973. xvi, 358 pp., illus. \$9.50. Series 67.

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**Human Associative Memory.** John R.

SCIENCE, VOL. 181

Anderson and Gordon H. Bower. Winston, Washington, D.C., 1973 [distributor, Halsted (Wiley), New York]. xvi, 524 pp., illus. \$14.95. Experimental Psychology Series.

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**Human Embryology and Genetics.** F. Beck, D. B. Moffat, and J. B. Lloyd. Illustrations by Joyce Morgan. Blackwell Scientific, Oxford, England, 1973 (U.S. distributor, Davis, Philadelphia). vi, 314 pp. Paper, \$15.

**IAEA Research Contracts.** Twelfth Annual Report. International Atomic Energy Agency, Vienna, 1972 (U.S. distributor, Unipub, New York). xii, 192 pp. Paper, \$6. Technical Reports Series No. 134.

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**Implications of Continental Drift to the Earth Sciences.** Vol. 1. Proceedings of a NATO Advanced Study Institute, Newcastle upon Tyne, England, Apr. 1972. D. H. Tarling and S. K. Runcorn, Eds. Academic Press, New York, 1973. xvi, 622 pp., illus. \$38.

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**The Inevitability of Patriarchy.** Steven Goldberg. Morrow, New York, 1973. 256 pp. \$6.95.

**Inhalation Risks from Radioactive Contaminants.** Report of a panel, Vienna, Nov. 1970. International Atomic Energy Agency, Vienna, 1973 (U.S. distributor, Unipub, New York). x, 146 pp., illus. Paper, \$5 Technical Reports Series No. 142.

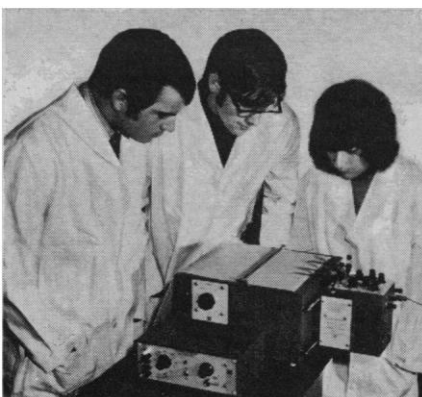
**Inhibition of Memory Formation.** M. E. Gibbs and R. F. Mark. Plenum, New York, 1973. x, 554 pp. \$25.

**International Review of Research in Mental Retardation.** Vol. 6. Norman R. Ellis, Ed. Academic Press, New York, 1973. xviii, 330 pp., illus. \$14.50.

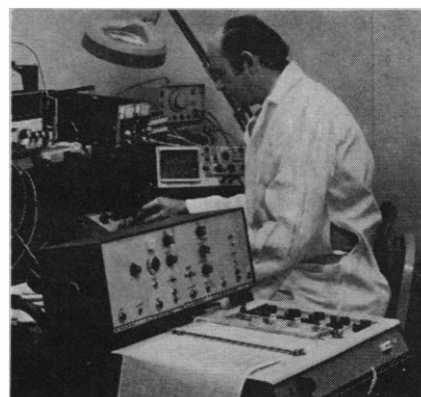
**The Interpretation of Language.** Theodore Thass-Thienemann. Aronson, New York, ed. 2, 1973. Two vols. Vol. 1, Understanding the Symbolic Meaning of Language. xii, 498 pp. Vol. 2, Understanding the Unconscious Meaning of Language. viii, 438 pp. Each vol., \$12.50.

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Rinehart and Winston, New York, 1973. xii, 276 pp., illus. Paper, \$3.95.

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**Luminescence of Crystals, Molecules, and Solutions.** Proceedings of a conference, Leningrad, U.S.S.R., Aug. 1972. Ferd Williams, B. Baron, M. Martens, and S. P. Varma, Eds. Plenum, New York, 1973. xx, 723 pp., illus. \$32.

**Maintenance Engineering.** Organization and Management. Frank Gradon. Halsted (Wiley), New York, 1973. xii, 210 pp., illus. \$23.50.

**Mammographic Appearances.** A. Willemin. Karger, New York, 1972. viii, 316 pp., illus. \$44.95.

**Mathematical Programming.** Proceedings of a seminar, Madison, Wis., Sept. 1972. T. C. Hu and Stephen M. Robinson, Eds. Academic Press, New York, 1973. xii, 296 pp., illus. \$8.75. Mathematics Research Center, University of Wisconsin, No. 30.

**Mercury Contamination in Man and His Environment.** International Atomic Energy Agency, Vienna, 1972 (U.S. distributor, Unipub, New York). viii, 182 pp., illus. Paper, \$6. Technical Reports Series No. 137.

**Microautoradiography and Electron Probe Analysis.** Their Application to Plant Physiology. U. Lüttge, Ed. Springer-Verlag, New York, 1972. iv, 242 pp., illus. Paper, \$14.60.

**Microbiology and Human Disease.** George A. Wistreich and Max D. Lecht-

man. Glencoe (Benziger Bruce and Glencoe), New York, and Collier-Macmillan, London, 1973. xviii, 814 pp., illus. \$13.95. Instructor's Guide. ii, 206 pp.

**Molecular Pathology of Connective Tissues.** Ruy Perez-Tamayo and Marcos Rojkind, Eds. Dekker, New York, 1973. x, 406 pp., illus. \$24.50. Biochemistry of Disease, vol. 3.

**National Geographic Society Research Reports.** Abstracts and Reviews of Research and Exploration Authorized under Grants from the Society during the Year 1966. Paul H. Oehser, Ed. National Geographic Society, Washington, D.C., 1973. x, 326 pp., illus. \$5.

**The Nature of Human Consciousness.** A Book of Readings. Robert E. Ornstein, Ed. Freeman, San Francisco, 1973. xii, 514 pp., illus. Paper, \$5.95. A Series of Books in Psychology.

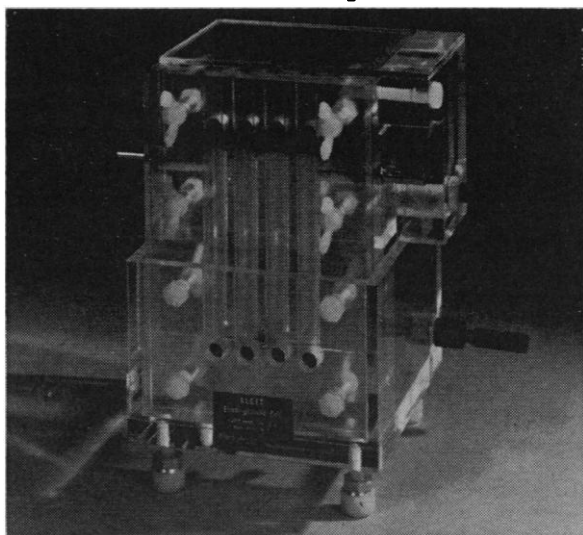
**New Concepts in Neurotransmitter Regulation.** Proceedings of a symposium, La Jolla, Calif., July 1972. Arnold J. Mandell, Ed. Plenum, New York, 1973. xii, 316 pp., illus. \$16.

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**Ocean Resources and Public Policy.** T. Saunders English, Ed. University of Washington Press, Seattle, 1973. viii, 184

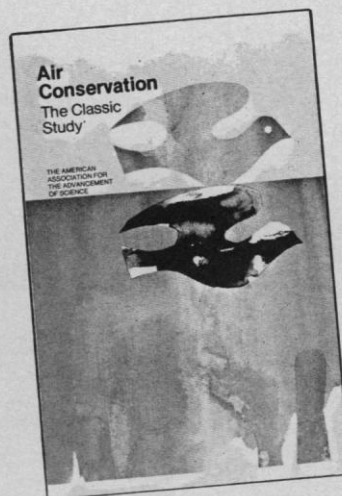
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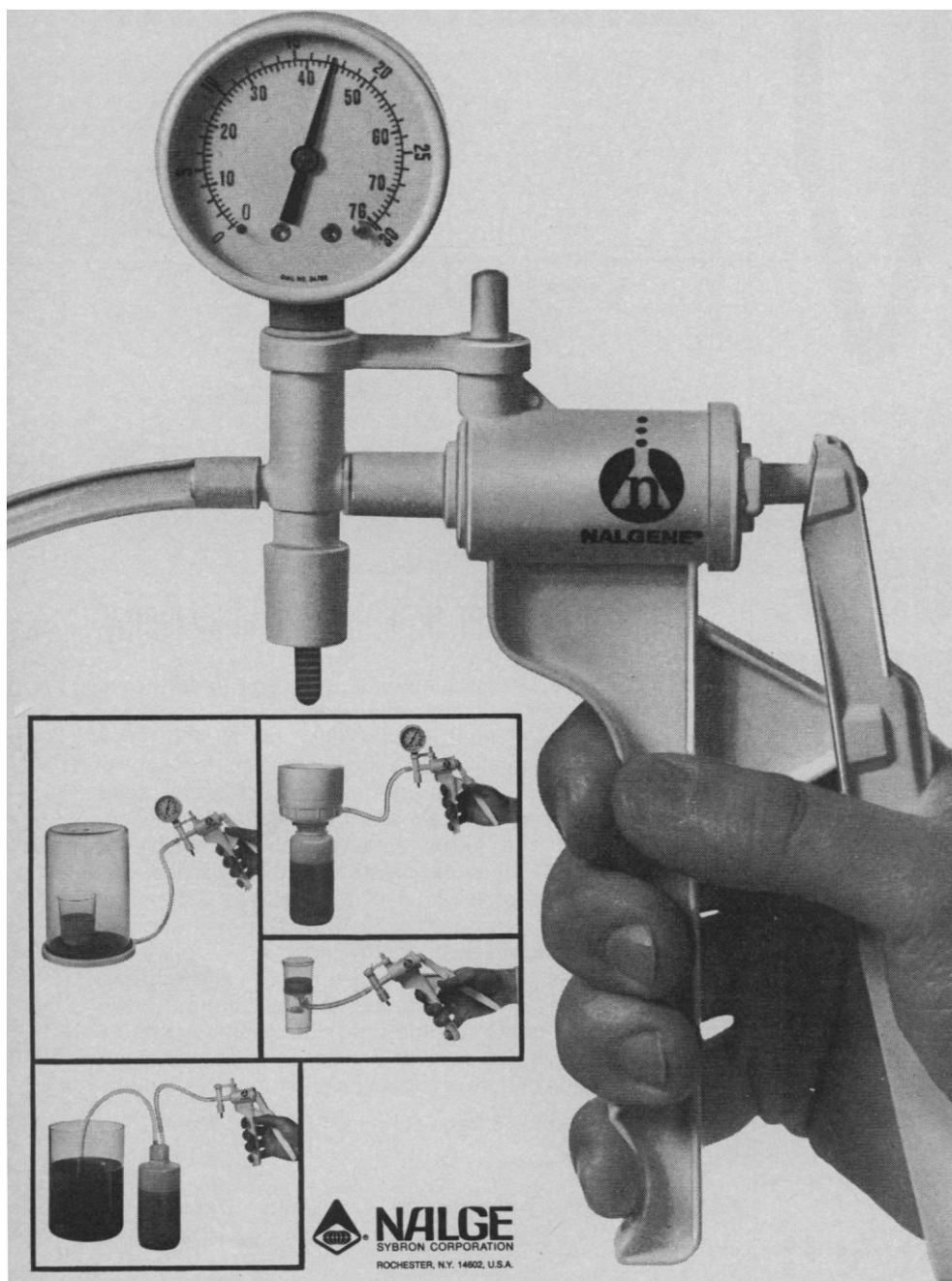
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**Only a Little Planet.** Lawrence Collins. Photographs by Martin Schweitzer. Friends of the Earth, San Francisco, and Herder and Herder, New York (distributor, Ballantine, New York). 128 pp. Paper, \$4.95.

**Orbital and Electron Density Diagrams.** An Application of Computer Graphics. Andrew Streitwieser, Jr., and Peter H. Owens. Macmillan, New York, and Collier-Macmillan, London, 1973. xiv, 160 pp., illus. Paper, \$5.95.

**The Organic Chemist's Book of Orbitals.** William L. Jorgensen and Lionel Salem. Academic Press, New York, 1973. xiv, 306 pp., illus. \$11.50.

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**Palaeoethnobotany.** The Prehistoric Food Plants of the Near East and Europe. Jane M. Renfrew. Figures drawn by Alan Eade. Columbia University Press, New York, 1973. xviii, 248 pp. + plates. \$20.

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**Pathological Effects of Oral Contraceptives.** MSS Information Corporation, New York, 1973. 152 pp., illus. \$15.

**Physical Fluid Dynamics.** P. D. McCormack and Lawrence Crane. Academic Press, New York, 1973. xxiv, 488 pp., illus. \$17.50.

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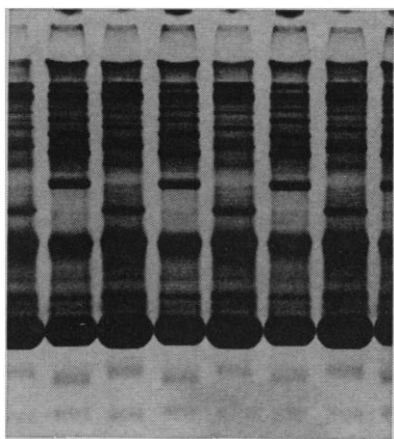
**Potassium in Soil.** Proceedings of a colloquium, Landshut, Germany, June 1972. International Potash Institute, Berne, Switzerland, 1972. 220 pp., illus. 26 Sw. Fr.

**The Power and the Frailty.** The Future of Medicine and the Future of Man. Jean Hamburger. Translated from the French edition (Paris, 1972) by Joachim Neugroschel. Macmillan, New York, 1973. xvi, 140 pp. \$4.95.

**Preparative Organic Chemistry.** G. Hilgetag and A. Martini, Eds. Translated from the German edition. Wiley-Interscience, New York, 1973. xxvi, 1182 pp., illus. \$42.50.

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**Protoplastes et Fusion de Cellules Somatiques Végétales.** Proceedings of a conference, Versailles, Sept. 1972. Institut National de la Recherche Agronomique, Paris, 1973. 550 pp., illus. 160.50 F. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 212.

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**Spektralanalytische und metallurgische Untersuchungen an indischen Bronzen.** Otto Werner. Brill, Leiden, the Nether-

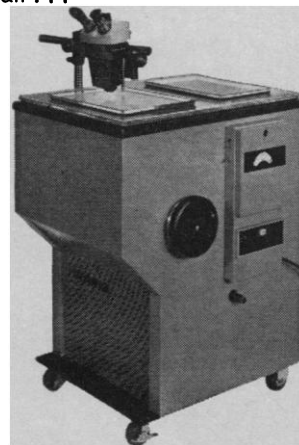
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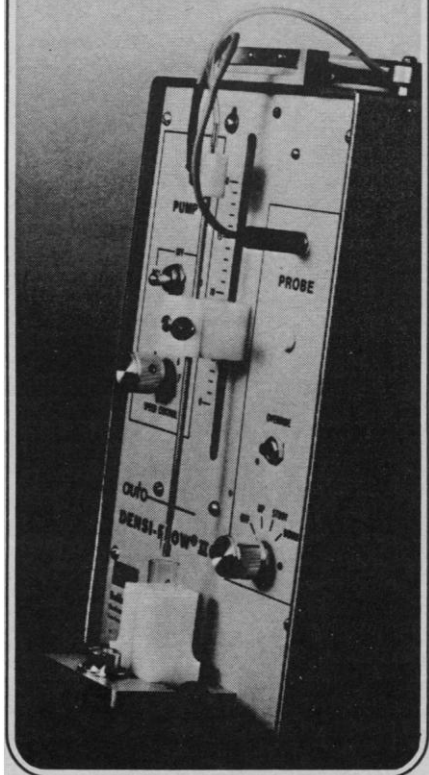
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**Systematic Lupus Erythematosus.** Clinical and Theoretical Aspects. MSS Information Corporation, New York, 1973. 200 pp., illus. \$15.

**Systemic Fungicides.** R. W. Marsh, B. J. W. Byrde, and D. Woodcock, Eds. Halsted (Wiley), New York, 1973. xii, 322 pp., illus. Paper, \$8.75.

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**Television and Growing Up.** The Impact of Televised Violence. Report to the Surgeon General, U.S. Public Health Service, from the Surgeon General's Scientific Advisory Committee on Television and Social Behavior. National Institute of Mental Health, Rockville, Md., 1972. x, 170 pp., illus. Paper, \$2.25.

**Television and Social Behavior.** National Institute of Mental Health, Rockville, Md., 1972 (available from the Superintendent of Documents, Washington, D.C.). Five vols., illus., paper. Vol. 1, Media Content and Control. George A. Comstock and Eli A. Rubinstein, Eds. vi, 546 pp. \$2. Vol. 2, Television and Social Learning. John P. Murray, Eli A. Rubinstein, and George A. Comstock, Eds. vi, 372 pp. \$1.50. Vol. 3, Television and Adolescent Aggressiveness. George A.

Comstock and Eli A. Rubinstein, Eds. vi, 436 pp. \$1.75. Vol. 4, Television in Day-to-Day Life: Patterns of Use. Eli A. Rubinstein, George A. Comstock, and John P. Murray, Eds. vi, 604 pp. \$2. Vol. 5, Television's Effects: Further Explorations. George A. Comstock, Eli A. Rubinstein, and John P. Murray. vi, 376 pp. \$1.50. A Technical Report to the Surgeon General's Scientific Advisory Committee.

**Thyristor Control.** F. F. Mazda. Halsted (Wiley), New York, 1973. x, 382 pp., illus. \$21.50.

**To Live and To Die.** When, Why, and How. Robert H. Williams, Ed. Springer-Verlag, New York, 1973. xx, 346 pp., illus. \$12.95.

**Transistor Physics.** K. G. Nichols and E. V. Vernon. Science Paperbacks (Chapman and Hall), London, 1973 [U.S. distributor, Halsted (Wiley), New York]. xii, 322 pp., illus. Paper, \$5.95. Reprint of the 1966 edition.

**Tulsa's Physical Environment.** A. P. Bennison, W. V. Knight, W. B. Creath, R. H. Dott, and C. L. Hayes, Eds. Tulsa Geological Society, Tulsa, Oklahoma, 1973. viii, 490 pp., illus., + maps. Paper, \$12. Tulsa Geological Society Digest, vol. 37.

**Tunneling in Rock.** Ernest E. Wahlstrom. Elsevier, New York, 1973. xiv, 250 pp., illus. \$19.50. *Developments in Geotechnical Engineering* 3.

**Twentieth-Century Indonesia.** Wilfred T. Neill. Columbia University Press, New York, 1973. xviii, 414 pp. + plates. Cloth, \$15; paper, \$4.95.

**Uchenie ob Evolyutsionnom.** (Teoriya Armorfaza.) L. Sh. Davitashvili. Metsniereba, Tbilisi, U.S.S.R., 1972. 324 pp., illus. 2 rubles 69 kopeks.

**Use of Naturally Impaired Water.** A Bibliography. U.S. Office of Water Resources Research, Washington, D.C., 1973 (available from the National Technical Information Service, Springfield, Va.). iv, 364 pp. Paper, \$3.

**Vasectomy.** Current Research in Male Sterilization. MSS Information Corporation, New York, 1973. 220 pp., illus. \$15.

**Vibration of Linear Mechanical Systems.** H. McCallion. Halsted (Wiley), New York, 1973. xii, 300 pp., illus. \$18.

**The Viscera of the Domestic Mammals.** R. Nickel, A. Schummer, E. Seiferle, and W. O. Sack. Translated from the German edition (1967). Parey, Berlin, and Springer-Verlag, New York, 1973. xvii, 402 pp., illus. + plates. \$45.50.

**Visceral Learning.** Toward a Science of Self-Control. Gerald Jonas. Viking, New York, 1973. vi, 154 pp. \$6.95.

**Visual Aids for Paramedical Vocabulary.** J. E. Schmidt. Thomas, Springfield, Ill., 1973. xii, 184 pp., illus. \$6.95.

**Ward 402.** Ronald J. Glasser. Braziller, New York, 1973. 232 pp. \$6.95.

**Weather Modification.** Precipitation Inducement. A Bibliography. U.S. Office of Water Resources Research, Washington, D.C., 1973 (available from the National Technical Information Service, Springfield, Va.). iv, 246 pp. Paper, \$3.

**Without/Within.** Behaviorism and Humanism. Floyd M. Matson, Ed. Brooks/Cole (Wadsworth), Monterey, Calif., 1973. viii, 104 pp. Paper, \$2.50.