

analysis (Odum) I found more than usually impenetrable, and the discussion of steady states and chemical stability (Pytkowicz) is very preliminary: the CO₂ juggernaut (Machta) rolls on.

What would it take to change the chemistry of the oceans? This collection of papers gives a very valuable summary of the current status of our attempts to answer this question. It is interesting to note that little attention is paid to estuarine processes, which probably account for a large part of the action.

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Biological Assessment

The Panamic Biota. Some Observations Prior to a Sea-Level Canal. A symposium, Washington, D.C., March 1970. MEREDITH L. JONES, Ed. Biological Society of Washington, Washington, D.C., 1972. viii, 270 pp., illus. Paper. Bulletin of the Biological Society of Washington, No. 2.

In his introduction Meredith Jones states that the primary objective of this symposium is to summarize knowledge of the Panamic biota. Approximately half the 24 contributors attempt to do this for different aspects of the biota. They generally conclude that the reptiles and amphibians, birds, mammals, corals, and some echinoderms are reasonably well known and that the mollusks, decapods, fishes, and terrestrial flora are poorly understood. These are, of course, relative evaluations since the various authors are not necessarily applying equivalent criteria to their systematic specialty and some are reviewing much larger taxa than others. For example, Neal Weber does not attempt to estimate the numbers of insects in Panama whereas Alexander Wetmore can place the number of bird species at 865 (10 percent of all the world species) with a reasonable degree of precision.

Sylvia Earle (marine plants), James Porter (corals), Lawrence Abele (decapods), and Richard Cheshier (echinoderms) provide the most complete and useful summaries of their groups. Some authors compare the Atlantic and Pacific affinities of their groups and some provide estimates of what the final numbers of species described from Panama will be. As a working document this symposium would have been more valuable if all the authors had

adhered to a uniform policy of presenting numbers of known species, estimates of total species, and Atlantic-Pacific comparisons when relevant. Many groups of organisms are not covered in this volume, presumably because no expert was available or there just wasn't enough information to be worth summarizing.

In addition to papers on the flora and fauna there are a succinct historical review of the isthmus, the canal, and the Panama-United States treaty situation; two papers on the physical characteristics of the proposed sea-level canal; and two excellent ecological reviews—of the coastal zones by Peter Glynn, and of the human ecology of the indigenous populations of eastern Panama by Reina Torres de Arauz. Although a few of the papers are trivial, most of the authors adequately assess the current knowledge in their fields. Several authors depart from their charge and speculate on the biological implications of a sea-level canal. In this regard the symposium might have profited by including a population geneticist and a theoretical ecologist. The views of a parasitologist would also seem worthwhile in broadly establishing possible biological interactions. Two papers represent background reports of recent study groups (William Newman) and surveys (Gilbert Voss) of the isthmian region. These make poignant reading as the authors describe their frustrations in attempting to obtain recognition for their institutions or committee report. Newman provides a fascinating discussion of the trials and tribulations of the National Academy committee report, which he and other members of the committee (CERIC) felt was largely neglected by the Atlantic-Pacific Inter-oceanic Canal Study Commission (see P. M. Boffey, *Science* **171**, 355–58 [1971]).

The participants almost unanimously call for more collections and more research in the isthmian region to overcome the relatively poor state of our knowledge for most groups of isthmian organisms. This situation could have been at least partially remedied had a small part of the Canal Study Commission's \$22-million appropriation been spent on a more detailed biological survey. Biologists have often been criticized for their lack of agreement on the implications of the proposed sea-level canal. These scientists are not expected to make the decision on whether or not a canal should be built, but it is they who are best able to evaluate

the ecological costs. This can be done intelligently, however, only if adequate long-term support for their research is available. No one expected the engineers to recommend a site for a new canal without rather lavish funding for accumulation of new data pertaining to their assignment; it is unfair to expect precision from biologists with much less complete data. Perhaps biologists involved in funding studies of national environmental issues are not yet up to situations complicated by international overtones and the lack of pork-barrel considerations.

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Books Received

Advances in Cancer Research. Vol. 16. George Klein, Sidney Weinhouse, and Alexander Haddow, Eds. Academic Press, New York, 1972. x, 366 pp., illus. \$19.50.

Advances in Lipid Research. Vol. 10. Rodolfo Paoletti and David Kritchevsky, Eds. Academic Press, New York, 1972. xviii, 386 pp., illus. \$23.50.

Biological Boundaries of Learning. Martin E. P. Seligman and Joanne L. Hager. Appleton-Century-Crofts, New York, 1972. xiv, 480 pp., illus. \$12.95. Century Psychology Series.

Cardiovascular Fluid Dynamics. Vol. 1. D. H. Bergel, Ed. Academic Press, New York, 1972. xxii, 366 pp., illus. \$20.

Cell Surface Alteration as a Result of Malignant Transformation, II. Papers by Jaro Ankerst and others. MSS Information Corp., New York, 1972. 240 pp., illus. \$15.

The Death-Life Law of Nature. Raymond Westbury Maxwell, Jr. Published by the author, Box 13897, Baden Station, St. Louis, Mo. 63147. xii, 400 pp.

Design in the Built Environment. R. Fraser Reekie. Crane Russak, New York, 1972. xii, 142 pp., illus. \$10.50.

Dynamics of Learning. Nathaniel Cantor. Agathon, New York, 1973 (distributed by Schocken, New York). xx, 296 pp. \$7.50.

The Earth and Human Affairs. National Academy of Sciences Committee on Geological Sciences. Canfield (Harper and Row), New York, 1972. xiv, 142 pp., illus. Cloth, \$3.95; paper, \$1.95.

Echocardiography. Harvey Feigenbaum with the assistance of Sonia Chang. Lea and Febiger, Philadelphia, 1972. xiv, 240 pp., illus. \$11.

Fish Nutrition. John E. Halver, Ed. Academic Press, New York, 1972. xii, 714 pp., illus. \$32.50.

FORTAN for Engineering Physics. Electricity, Magnetism, and Light. Alan B. Grossberg. McGraw-Hill, New York, 1972. viii, 246 pp., illus. Paper, \$4.50.

Generalized Functions and Fourier

(Continued on page 834)

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BOOKS RECEIVED

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Analysis. An Introduction. John L. Chalfour. Benjamin (Addison-Wesley), Reading, Mass., 1972. x, 188 pp., illus. Cloth, \$12.50; paper, \$5.95. Mathematics Lecture Note Series.

Genetic Diversity and Natural Selection. James Murray. Hafner, New York, 1972. viii, 128 pp., illus. Paper, \$4.25. University Reviews in Biology.

Glucagon. Molecular Physiology, Clinical and Therapeutic Implications. Pierre J. Lefebvre and Roger H. Unger, Eds. Pergamon, New York, 1972. xiv, 370 pp., illus. \$37.50.

Histological Typing of Bone Tumours. F. Schajowicz, L. V. Ackerman, and H. A. Sissons in collaboration with L. H. Sobin and H. Torloni. World Health Organization, Geneva, 1972 (U.S. distributor, American Public Health Association, Washington, D.C.). 60 pp. + plates. \$14. With 150 slides, boxed, \$47. International Histological Classification of Tumours, No. 6.

Inflammation. Mechanisms and Control. Proceedings of a conference, Princeton, N.J., June 1972. Irwin H. Lepow and Peter A. Ward, Eds. Academic Press, New York, 1972. xiv, 410 pp., illus. \$12.50.

Inorganic Reaction Mechanisms. Vol. 2, A Review of the Literature Published between Sept. 1970 and Nov. 1971. J. Burgess, senior reporter. Chemical Society, London, 1972. xx, 394 pp., illus. £8. Specialist Periodical Report.

International Review of Experimental Pathology. Vol. 11, 1972. G. W. Richter and M. A. Epstein, Eds. Academic Press, New York, 1972. xii, 330 pp., illus. \$19.50.

Introduction to Graph Theory. Robin J. Wilson. Academic Press, New York, 1972. viii, 168 pp., illus. \$7.50.

Is My Baby All Right? A Guide to Birth Defects. Virginia Apgar and Joan Beck. Illustrated by Ernest W. Beck. Trident, New York, 1973. 492 pp. \$9.95.

Journey through a Part of the United States of North America in the Years 1844 to 1846. Albert C. Koch. Translated from the German edition (Dresden, 1847) and edited by Ernst A. Stadler. Southern Illinois University Press, Carbondale; Fefter and Simons, London, 1972. xxxvi, 178 pp. + plates. \$12.50. Travels on the Western Waters.

Karst Landforms. Marjorie M. Sweeting. Columbia University Press, New York, 1973. xvi, 362 pp., illus. \$25.

Kuwait. Prospect and Reality. H. V. F. Winstone and Zahra Freeth. Crane Russak, New York, 1972. 232 pp., illus. \$20.50.

Lamps and Lighting. S. T. Henderson and A. M. Marsden, Eds. Crane Russak, New York, ed. 2, 1972. x, 602 pp., illus. \$20.50.

Length of Stay in PAS Hospitals, United States, 1971. Commission on Professional and Hospital Activities, Ann Arbor, Mich., 1972. lviii, 164 pp., illus. Paper, \$8.50.

Length of Stay in PAS Hospitals, United States, Regional, 1971. Commission on Professional and Hospital Activities, Ann Arbor, Mich., 1972. lxxxii, 636 pp., illus. Paper, \$11.

The Living Reef. Corals and Fishes of Florida, the Bahamas, Bermuda and the Caribbean. Idaz Greenberg. Illustrated by Jerry Greenberg. Seahawk Press, Miami, 1972. 110 pp. Paper, \$5.95.

The Logit Transformation with Special Reference to Its Uses in Bioassay. Winifred D. Ashton. Hafner, New York, 1972. viii, 88 pp., illus. Paper, \$8.25. Griffin's Statistical Monographs and Courses, No. 32.

Manual of Histopathological Staining Methods. Frederick A. Putt. Wiley, New York, 1972. xxiv, 336 pp. \$13.95.

Marijuana and Social Evolution. Joel Simon Hochman. Prentice-Hall, Englewood Cliffs, N.J., 1972. viii, 184 pp., illus. \$5.95.

The Marmoset Periodontium in Health and Disease. B. M. Levy, S. Dreizen, and S. Bernick. Karger, Basel, 1972 (U.S. distributor, Phiebig, White Plains, N.Y.). vi, 90 pp., illus. \$10.95. Monographs in Oral Science, vol. 1.

Memoirs of the New York Botanical Garden. Vol. 23. The Botany of the Guayana Highland—Part IX. Bassett Maguire and collaborators. The Flora of the Meseta del Cerro Jaua. Julian A. Steyermark, Bassett Maguire, and collaborators. New York Botanical Garden, Bronx, N.Y., 1972. 892 pp., illus. Paper, \$49.

A Method of Obstetrics and Gynaecology. Ian A. McDonald. Illustrated by Roberta J. McDonald. Pergamon, Elmsford, N.Y., 1972. xii, 544 pp. \$16.50.

Methods in Enzymology. Vol. 26, Enzyme Structure. Part C. C. H. W. Hirs and Serge N. Timasheff, Eds. Academic Press, New York, 1972. xvi, 738 pp., illus. \$29.50.

Migration of Interacting Systems. L. W. Nichol and D. J. Winzor. Oxford University Press, New York, 1972. x, 166 pp., illus. \$17.75. Monographs on Physical Biochemistry.

Modal Control. Theory and Applications. Brian Porter and Roger Crossley. Taylor and Francis, London; Barnes and Noble, New York, 1972. xvi, 234 pp., illus. \$23.75.

Modern Analytical Methods. D. Betteridge and H. E. Hallam. Chemical Society, London, 1972. viii, 228 pp., illus. Paper, £2. Chemical Society Monographs for Teachers, No. 21.

Molecular Magnetism and Magnetic Resonance Spectroscopy. Rollie J. Myers. Prentice-Hall, Englewood Cliffs, N.J., 1973. xii, 244 pp., illus. \$11.95. Fundamental Topics in Physical Chemistry.

mRNA. MSS Information Corp., New York, 1972. Current Research I, papers by S. Riva and others. 198 pp., illus. Current Research II, papers by S. Peter Nissley and others. 186 pp., illus. Each vol., \$15.

Neuromuscular Blocking and Stimulating Agents. J. Cheymol, Ed. Pergamon, New York, 1973. 2 volumes. Vol. 1, xlvi pp. + pp. 1-424 + plates. Vol. 2, xlvi pp. + pp. 425-654 + plates. \$52.50. International Encyclopedia of Pharmacology and Therapeutics, section 14.

Nobel. The Man and His Prizes. Edited by the Nobel Foundation and W. Odelberg. Elsevier, New York, ed. 3, 1972. xii, 660 pp., illus. \$22.50.

The North American Species of Psathyrella. Alexander H. Smith. New York

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Botanical Garden, New York, 1972. iv, 634 pp., illus. Paper, \$35. Memoirs of the New York Botanical Garden, vol. 24.

128 Houseplants You Can Grow. Rob Herwig. Collier, New York, 1972. 60 pp., illus. Paper, \$1.50.

Organizing Nonprint Materials. A Guide for Librarians. Jay E. Daily. Dekker, New York, 1972. viii, 190 pp. \$12.50. Books in Library and Information Science, vol. 3.

Organometallic Chemistry. Chimie Organometallique. A conference, Moscow, Aug. 1971. Z. N. Parnes, Ed. Butterworths, London, 1972 (U.S. distributor, Crane Russak, New York). pp. 335-635, illus. \$25.80. Also published as *Pure and Applied Chemistry*, Vol. 30, Nos. 3-4 (1972).

Out of Discontent. Visions of the Contemporary University. Craig R. Eisen-drath and Thomas J. Cottle. Illustrated by Laurence Fink. Schenkman, Cambridge, Mass., 1972. xiv, 182 pp. Cloth, \$6.95; paper, \$3.50.

The Oxford Book of Birds. Pocket Edition. Bruce Campbell. Illustrated by Donald Watson. Oxford University Press, New York, 1972. xvi, 208 pp. \$5.

Oxide Magnetic Materials. K. J. Standley. Oxford University Press, New York, ed. 2, 1972. x, 254 pp. + plates. \$18.75.

Papers in Economic Prehistory. Studies by Members and Associates of the British Academy Major Research Project in the Early History of Agriculture. E. S. Higgs, Ed. Cambridge University Press, New York, 1972. x, 220 pp., illus. \$15.50.

Phylogenetic Development of Vertebrate Immunity, II. Papers by Joel M. Goodman and others. MSS Information Corp., New York, 1972. 174 pp., illus. \$15.

Physics of Atoms and Molecules. An Introduction to the Structure of Matter. U. Fano and L. Fano. University of Chicago Press, Chicago, 1973. xiv, 592 pp., illus. \$14.50.

Plant Phenolics. Pascal Ribéreau-Gayon. Hafner, New York, 1972. xvi, 254 pp., illus. Paper, \$12.95. University Reviews in Botany, 3.

Plant Physiology. A Treatise. Vol. 6C, Physiology of Development: From Seeds to Sexuality. F. C. Steward, Ed. Academic Press, New York, 1972. xx, 450 pp., illus. \$23.50.

Power Systems Engineering and Mathematics. U. G. Knight. Pergamon, New York, 1972. xvi, 274 pp., illus. \$16.50.

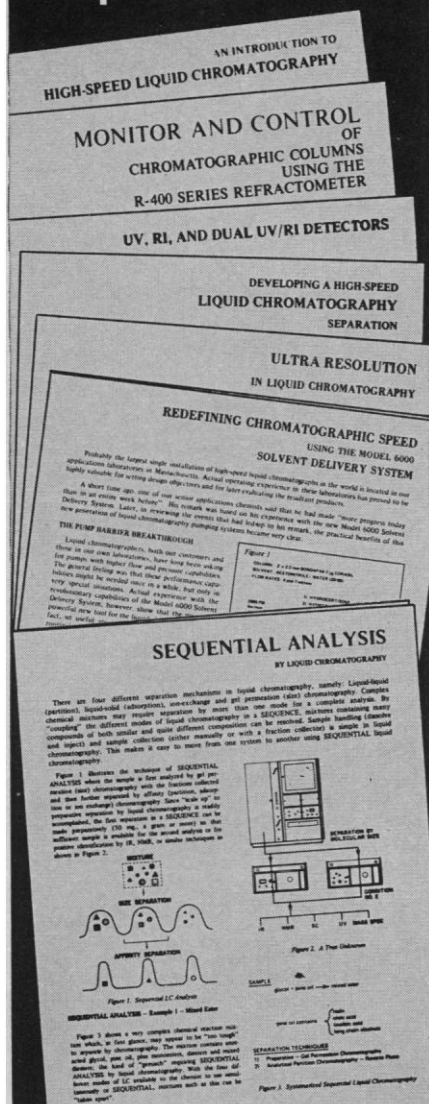
Practical Programming. P. N. Corlett, J. D. Tinsley, and R. A. Court. Cambridge University Press, New York, ed. 2, 1972. xii, 264 pp., illus. Cloth, \$11.50; paper, \$4.95. School Mathematics Project Handbooks.

Pregnancy, Birth, and Family Planning. A Guide for Expectant Parents in the 1970s. Alan F. Guttmacher. Illustrated by Anthony Ravielli. Viking, New York, 1973. xviii, 366 pp. \$10.

Preparative Methods in Solid State Chemistry. Paul Hagenmuller, Ed. Academic Press, New York, 1972. xviii, 602 pp., illus. \$36.

Principles of Dispersal in Higher Plants. L. van der Pijl. Springer-Verlag, New York, ed. 2, 1972. xii, 162 pp., illus. \$12.60.

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Proceedings of the Sixth Berkeley Symposium on Mathematical Statistics and Probability. Vol. 5, Darwinian, Neo-Darwinian, and Non-Darwinian Evolution. Lucien M. Le Cam, Jerzy Neyman, and Elizabeth L. Scott, Eds. University of California Press, Berkeley, 1972. xvi, 370 pp., illus. \$13.50.

Progress in Allergy. Vol. 16. Paul Kallos, Byron H. Waksman, and Alain de Weck, Eds. Karger, Basel, 1972 (U.S. distributor, Phiebig, White Plains, N.Y.). xii, 498 pp., illus. \$35.85.

Progress in Liver Diseases. Vol. 4. Hans Popper and Fenton Schaffner, Eds. Grune and Stratton, New York, 1972. xvi, 640 pp., illus. \$29.75.

Progress in Theoretical Biology. Vol. 2. Robert Rosen and Fred M. Snell, Eds. Academic Press, New York, 1972. xvi, 350 pp., illus. \$18.50.

Prolactin and Carcinogenesis. Proceedings of a Workshop, Cardiff, Wales, Mar. 1972. A. R. Boyns and K. Griffiths, Eds. Alpha Omega Alpha, Cardiff, Wales, 1972. viii, 230 pp., illus. \$10.

Psychical Phenomena and the Physical World. Charles McCreery. Hamilton, London, 1973. 138 pp. £2.30. Proceedings of the Institute of Psychophysical Research, vol. 4.

Psycholinguistics and Reading. Frank Smith, Holt, Rinehart and Winston, New York, 1973. xii, 212 pp., illus. \$4.95.

Purulent and Fibrous Mediastinitis Radiological Diagnosis. St. Z. Leszczyński in collaboration with L. Pawlicka. Polish Medical Publishers, Warsaw, 1972 (available as TT 70-55171 from National Technical Information Service, Springfield, Va.). 160 pp., illus. \$6.

The Quest for Mind. Piaget, Lévi-Strauss, and the Structuralist Movement. Howard Gardner. Knopf, New York, 1973. xiv, 276 pp. + index. \$6.95.

Realizability Theory for Continuous Linear Systems. A. H. Zemanian. Academic Press, New York, 1972. xvi, 232 pp., illus. \$14.50. Mathematics in Science and Engineering, vol. 97.

Recent Advances in Renal Physiology. A symposium, Brestenberg, Switzerland, Aug. 1971. H. Wirz and F. Spinelli, Eds. Karger, Basel, 1972 (U.S. distributor, Phiebig, White Plains, N.Y.). x, 298 pp., illus. \$27.45.

Regions of the United States. John Fraser Hart, Ed. Harper and Row, New York, 1972. pp. 155-374, illus. Paper, \$3.95. Harper and Row Series in Geography. Reprinted from *Annals of the Association of American Geographers*, June 1972.

Regulation of Organ and Tissue Growth. An AAAS symposium, Philadelphia, Dec. 1971. Richard J. Goss, Ed. Academic Press, New York, 1972. xiv, 366 pp., illus. \$18.50.

The Science of Zoology. Paul B. Weisz. McGraw-Hill, New York, ed. 2, 1972. xvi, 728 pp., illus. \$12.95.

Science Policy and Development. The Case of Israel. A symposium, Israel, Jan. 1970. Eliezer Tal and Yaron Ezrahi, Eds. National Council for Research and Development, Jerusalem; Gordon and Breach, New York, 1972. x, 354 pp., illus.

Scientific Activities. Activités Scientifiques. Federal Government Costs and Expenditures 1963-64 to 1972-73. Ministry

of State for Science and Technology, Ottawa, Canada, 1972. Variously paged, illus. Paper.

Stimulus Schedules. The $t-r$ Systems. William N. Schoenfeld and Brett K. Cole with Joel Blaustein, Gerald D. Lachter, John M. Martin, and Christopher Vickery. Harper and Row, New York, 1972. x, 166 pp., illus. Paper, \$4.95.

Streptococci and Streptococcal Diseases. Recognition, Understanding, and Management. A symposium, Minneapolis, 1971. Lewis W. Wannamaker and John M. Matsen, Eds. Academic Press, New York, 1972. xxiv, 636 pp., illus. \$27.50.

Stress and Distress in Response to Psychosocial Stimuli. Laboratory and Real-Life Studies on Sympatho-Adrenomedullary and Related Reactions. Lennart Levi, Ed. Pergamon, New York, 1972. vi, 166 pp., illus. Paper, \$10.50. International Series of Monographs in Experimental Psychology, vol. 17.

Sulfur in Organic and Inorganic Chemistry. Vol. 3. Alexander Senning, Ed. Dekker, New York, 1972. xiv, 462 pp., illus. \$33; by subscription, \$27.

Systems Analysis and Stimulation in Ecology. Vol. 2. Bernard C. Patten, Ed. Academic Press, New York, 1972. xvi, 592 pp., illus. \$27.50.

Systems and Theories in Psychology. Melvin H. Marx and William A. Hillix. McGraw-Hill, New York, ed. 2, 1972. xvi, 626 pp. \$10.95. McGraw-Hill Series in Psychology.

Teaching Science to the Ordinary Pupil. K. Laybourn and C. H. Bailey. Barnes and Noble, New York, ed. 2, 1972. 480 pp., illus. \$12.50.

Theory and Applications of Variable Structure Systems. Proceedings of a seminar, Sorrento, Italy, Apr. 1972. R. R. Mohler and A. Ruberti, Eds. Academic Press, New York, 1972. xii, 232 pp., illus. \$8.

Tradition for the Future. Human Values and Social Purpose. Mirrit Boutros Ghali. Alden, Oxford, England, 1972. 288 pp. \$9.

Transferred Electron Devices. P. J. Bulman, G. S. Hobson, and B. C. Taylor. Academic Press, New York, 1972. x, 402 pp., illus. \$26.50.

Trees of Pennsylvania, the Atlantic States, and the Lake States. Hui-lin Li. University of Pennsylvania Press, Philadelphia, 1972. x, 276 pp., illus. \$17.50.

UFO's. A Scientific Debate. An AAAS symposium, Boston, Dec. 1969. Carl Sagan and Thornton Page, Eds. Cornell University Press, Ithaca, N.Y., 1973. xxii, 310 pp., illus. \$12.50.

Vibrational Spectra and Structure. A Series of Advances. Vol. 1. James R. Durig, Ed. Dekker, New York, 1972. x, 196 pp., illus. \$15.50.

Ways to Spaceflight. Hermann Oberth. Translated from the German edition (Munich, 1929). National Aeronautics and Space Administration, Washington, D.C., 1972 (available as NASA TT F-622 from the Clearinghouse for Federal Scientific and Technical Information, Springfield, Va.). xiv, 598 pp., illus. Paper, \$10. NASA Technical Translation.

Why Do We Still Have an Ecological Crisis? Terry R. Armstrong, Ed. Prentice-Hall, Englewood Cliffs, N.J., 1972. x, 150 pp. Cloth, \$5.95; paper, \$2.45.