namic interpretation which Zotin advocates in his monograph. As a workable alternative, changes in coupling between component processes could be studied directly during biological development (as has been done, for example, by A. Martonosi et al., Cold Spring Harbor Symp. Quant. Biol. 37, 455 [1973]). Concepts from network thermodynamics (as presented, for example, by G. Oster et al., Quart. Rev. Biophys. 6, 1 [1973]) and generalized statistical mechanics (as developed, for example, by K. Kornacker, Progr. Theoret. Biol. 2, 1 [1972]) could then be used to analyze the data for any unifying principles that might govern the nonlinear dynamics of biological transformations.

KARL KORNACKER

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Developmental Anatomy

Patterns in Plant Development. TAYLOR A. STEEVES and IAN M. SUSSEX. Prentice-Hall, Englewood Cliffs, N.J., 1972. xviii, 302 pp., illus. \$10.95. Foundations of Developmental Biology Series.

This text presents the developmental anatomy of vascular plants in a form suitable both as an introduction for undergraduates and as an overview of the field for investigators wanting to be brought up to date with regard to it. The book's outstanding merit is that it reduces to readable and well-illustrated form the results of countless investigations applying the techniques of histology, surgery, and tissue culture to plants. Despite its age, the field of plant development is still conceptually diffuse and strikes one as being in a condition similar to that of, say, macromolecular synthesis prior to Watson-Crick—that is, many processes are somehow implicated as part of a mechanism but few can be shown to be part of a well-defined causal chain. A companion volume, Control Mechanisms in Plant Development by Galston and Davies, may go somewhat farther in this regard, but plant ontogeny is still awaiting the clarification and ingenious detailed modeling that has come to genetics and even ecology. Because the book confines itself to vascular plants two sources of relevant experimental work, that on lower plants (Jaffe's, for example) and simpler animal systems (Wolpert's, for example), are not drawn upon. Theory of pattern formation in general is not discussed. The book's strength is in description. Although the circumlocution typical of the field does slip in ("The cytochemical differences . . . do not necessarily relate to differences in mitotic activity and may be quite independent of such differences if these actually exist," p. 66), I confess to not being aware of any grand generalizations that the authors have failed to present clearly. Meristem ontogeny and the course of vascular differentiation are particularly well treated.

The book summarizes the many questions that have been raised, and the few that have been answered, during the era in which studies of plant development have been greatly influenced by Wardlaw and Wetmore, to whom the book is dedicated. With the background information and issues so tidily put together for contemplation, the student or newcomer to the field has all the more opportunity to comb the literature of adjacent fields, and his own mind, for the new and we may hope the ultimate classes of mechanisms fully accounting for plant morphogenesis.

P. B. GREEN

Department of Biological Sciences Stanford University, Stanford, California

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Acupuncture Therapy. Current Chinese Practice. Leong T. Tan, Margaret Y.-C. Tan, and Illza Veith. Temple University Press, Philadelphia, 1973. xii, 160 pp., illus. \$15.

Adaptive Learning. Behavior Modification with Children. Beatrice A. Ashem and Ernest G. Poser, Eds. Pergamon, New York, 1973. xx, 440 pp., illus. \$15. Pergamon General Psychology Series, vol. 29.

Advances in Applied Mechanics. Vol. 13. Chia-Shun Yih, Ed. Academic Press, New York, 1973. x, 342 pp., illus. \$25.

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Aggression. A Social Learning Analysis. Albert Bandura. Prentice-Hall, Englewood Cliffs, N.J., 1973. x, 390 pp. \$8.95.

The Archaeology of Knowledge. Michel Foucault. Translated from the French edition (Paris, 1969) by A. M. Sheridan Smith. Pantheon (Random House), New York, 1972. vi, 246 pp. \$10.

Artificial Insemination. MSS Information Corporation, New York, 1973. 226 pp., illus. \$15.

Beyond Stonehenge. Gerald S. Hawkins. Harper and Row, New York, 1973. xiv, 320 pp., illus. \$10.

Beyond the Punitive Society. Operant Conditioning: Social and Political As-

pects. Harvey Wheeler, Ed. Freeman, San Francisco, 1973. x, 274 pp. \$8.95.

Bilingualism in the Southwest. Paul R. Turner, Ed. University of Arizona Press, Tucson, 1973. xvi, 352 pp., illus. Paper, \$7.45.

Billion Year Spree. The True History of Science Fiction. Brian W. Aldiss. Doubleday, Garden City, N.Y., 1973. xii, 340 pp. \$7.95.

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Birds of Big Bend National Park and Vicinity. Roland H. Wauer. Paintings by Howard Rollin and Anne Pulich. University of Texas Press, Austin, 1973. xiv, 224 pp. Paper, \$4.95.

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Cafeto. Cultivo y Fertilizacion. José F. Carvajal. Instituto Internacional de la Potasa, Berne, Switzerland, 1972. 142 pp., illus. 22 Sw. Fr.

Cargèse Lectures in Physics. Vol. 5. D. Bessis, Ed. Gordon and Breach, New York, 1972. viii, 550 pp., illus. \$32.

Cell Surface Antigens. Studies in Mammals Other than Man. Papers by George D. Snell and 15 others. MSS Information Corporation, New York, 1973. 196 pp., illus. \$10.

Chemical Applications of Thermal Neutron Scattering. B. T. M. Willis, Ed. Oxford University Press, New York, 1973. xvi, 312 pp., illus. \$30.50. Harwell Series.

Chemistry. Its Role in Society. James S. Chickos, David L. Garin, and Robert A. Rouse. Heath, Lexington, Mass., 1973. xviii, 302 pp., illus. Paper, \$6.95.

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(Continued on page 1180)

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BOOKS RECEIVED

(Continued from page 1160)

The Child in His Family. The Impact of Disease and Death. E. James Anthony and Cyrille Koupernik, Eds. Wiley, New York, 1973. xxiv, 510 pp. \$15.95. Yearbook of the International Association for Child Psychiatry and Allied Professions, vol. 2.

Cities and Geology. Robert F. Legget. McGraw-Hill, New York, 1973. xvi, 624 pp., illus. \$15.50.

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A Concise Introduction to Organic Chemistry. Albert Zlatkis, Eberhard Breitmaier, and Günther Jung. McGraw-Hill, New York, 1973. xii, 622 pp., illus. \$11.95.

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60 F. Collection de l'Ingénieur-Technicien.

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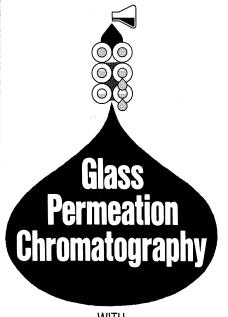
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Dominique. Analysis of an Adolescent. Françoise Dolto. Translated from the



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French edition (1971) by Ivan Kats. Outerbridge and Lazard, New York, 1973 (distributor, Dutton, New York). x, 262 pp., illus. \$8.95.

Drinks, Drugs, and Do-Gooders. Charles E. Goshen. Free Press, New York, and Collier-Macmillan, London, 1973. xiv, 268 pp., illus. \$7.95.

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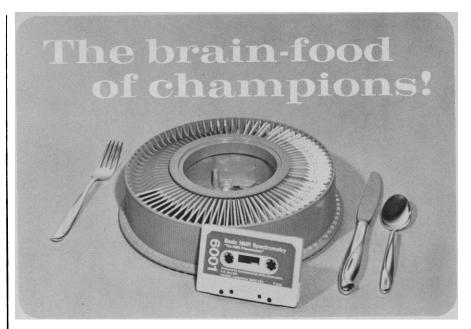
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Hard and Soft Acids and Bases. Ralph G. Pearson, Ed. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1973. xiv, 480 pp., illus. \$20. Benchmark Papers in Electrical Engineering and Computer Science.

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Men in a Developing Society. Geographic and Social Mobility in Monterrey, Mexico. Jorge Balan, Harley L. Browning, and Elizabeth Jelin with the assistance of Waltraut Feindt. Published for the Institute of Latin American Studies by the University of Texas Press, Austin, 1973. xx, 384 pp., illus. \$11.50. Latin American Monographs, No. 30.

Menopause and Aging. Proceedings of a conference, Hot Springs, Ark., May 1971. Kenneth J. Ryan and Don C. Gibson, Eds. U.S. Public Health Service, Bethesda, Md., 1973. xiv, 126 pp., illus. Paper, 60¢.

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RESPONSES OF FISH TO ENVIRONMENTAL CHANGES edited by Walter Chavin, Wayne State Univ., Detroit, Michigan. (23 Contributors) '73, about 480 pp., 166 il., 39 tables

FISH CHROMOSOME METHODOL-OGY by Thomas E. Denton, Samford Univ., Birmingham, Alabama. '73, about 172 pp., 26 il., 1 table

ECOLOGY AND THE QUALITY OF LIFE edited by Sylvan J. Kaplan, and Evelyn Kivy-Rosenberg, Jersey City State College, New Jersey. (24 Contributors) '73, about 240 pp., 23 il., 11 tables

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