

C. T. Ingold in the book more acceptable in including all fungi "normally submerged in large volumes of free water such as streams and rivers, ponds and lakes"? Another type of definitional problem relates to the large part *Thraustochytrium* plays in the literature on aquatic fungi (in this book it has more entries in the index than any other organism except *Saprolegnia*) despite the considerable evidence that it is not a fungus at all (see F. O. Perkins's chapter, "Fine structure of lower marine and estuarine fungi").

Among the interesting subjects dealt with in the book are distribution patterns (in "Lignicolous and algicolous fungi" by E. B. Gareth Jones, "Yeasts in oceanic regions" by J. W. Fell, "The ecology of marine lower fungi" by G. B. Bremer, "Fungi in sewage" by W. B. Cooke, and "The ecology of aquatic phycomycetes" by M. W. Dick), succession (especially in Newell's paper), and models to explain the distribution of aquatic fungi (see the paper by Dick). An especially interesting but preliminary report on Hyphomycetes as a source of food—and energy—in streams is presented by F. Bärlocher and B. Kendrick. The systematics and evolution of certain groups of aquatic fungi are reviewed authoritatively, but briefly, by F. K. Sparrow, T. W. Johnson, Jr., and R. W. Lichtwardt. Except for F. Gleason's paper on lower freshwater fungi, physiology is covered superficially and without the drawing together of concepts from which future work will evolve. In addition, there are papers on the degradation of oil and effects of DDT in aquatic systems, cytochemistry, morphology, diseases and immune responses to them, and freshwater *Actinomyces*. There is even a list of films on aquatic fungi.

While the broad and often critical coverage of the field makes perusal of it worthwhile, the book is marred by redundancies, for example, in the discussions of fungal parasites of algae, the nutrition of lower fungi, and ultrastructure. Moreover, the reproduction of illustrations in the chapters on ultrastructure, and elsewhere, is substandard. The cost of the book is increased by the inclusion in several chapters of space-consuming lists of fungi, much of the information in which could have been presented in the text, and it is not clear to me why a few of the chapters, such as that on *Actinomyces*, belong in the book at all.

Some of the difficulties with the book are attributable to the lack of circumscription of disciplines that characterizes developing fields. Another difficulty is the lack of reliable quantitative and ana-

lytical techniques in the field. Nevertheless, the excitement and potential of research on aquatic fungi are communicated in this book, along with much information.

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Books Received

Annual Review of Materials Science. Vol. 6. Robert A. Huggins, Richard H. Bube, and Richard W. Roberts, Eds. Annual Reviews, Palo Alto, Calif., 1976. xii, 436 pp., illus. \$17.

Biochemical Analysis of Membranes. A. H. Maddy, Ed. Chapman and Hall, London, and Halsted (Wiley), New York, 1976. x, 514 pp., illus. \$37.50.

The Biology of Human Action. Vernon Reynolds. Freeman, San Francisco, 1976. xvi, 270 pp., illus. Cloth, \$11.95; paper, \$6.50.

Biology of Opisthobranch Molluscs. Vol. 1. T. E. Thompson. The Ray Society, London, 1976. vi, 208 pp., illus. £15.

Butterflies of West Malaysia and Singapore. W. A. Fleming. Classey, Faringdon, Berkshire, England, 1975 (U.S. distributor, Entomological Reprint Specialists, Los Angeles). Two volumes, illus. x, 94 pp. + plates, and x, 64 pp. + plates. \$47.

The Calculus with Analytic Geometry Handbook. Jason R. Taylor. Taylor Associates, Bedford, Mass., 1976. 70 pp. Paper, \$2.95.

Clinical Endocrinology. Theory and Practice. Alexis Labhart in collaboration with H. Bürgi and 19 others. Translated from the German edition (Berlin, 1971) by A. Trachsler and J. Dodsworth-Phillips. Springer-Verlag, New York, 1976. xxxii, 1092 pp., illus. \$29.80. Springer Study Edition.

Communication Satellite Systems. An Overview of the Technology. R. G. Gould and Y. F. Lum, Eds. Published for the IEEE Aerospace and Electronic Systems Society by IEEE Press, New York, 1976 (distributor, Wiley, New York). xvi, 164 pp., illus. \$15.

Conceptual Blockbusting. A Pleasurable Guide to Better Problem Solving. James L. Adams. San Francisco Book Company, San Francisco, 1976 (distributor, Simon and Schuster, New York). xiv, 140 pp., illus. Cloth, \$8.95; paper, \$3.95. The Portable Stanford Series. Reprint of the 1974 edition.

Eating Dangerously. The Hazards of Allergies. Richard Mackarness. Harcourt Brace Jovanovich, New York, 1976. xvi, 164 pp. \$6.95.

Ecological Investigations of the Tundra Biome in the Prudhoe Bay Region, Alaska. Jerry Brown, Ed. University of Alaska, Fairbanks, 1975 (available from Biological Papers, 202 Bunnell Building, University of Alaska). xvi, 216 pp., illus. Paper, \$10. Biological Papers of the University of Alaska Special Report No. 2.

Economic Modeling for Water Policy Evaluation. Papers from a meeting, San Juan, P.R., 1974. R. M. Thrall, E. Heady, T. Schad, A. K. Schwartz, and R. G. Thompson, Eds. North-Holland, Amsterdam, 1976 (U.S. distributor, Elsevier, New York). xviii, 262 pp., illus. Paper, \$20.95. North-Holland/TIMS Studies in the Management Sciences, vol. 3.

The Economics of National Forest Management. Marion Clawson. Resources for the Fu-

ture, Washington, D.C., 1976 (distributor, Johns Hopkins University Press, Baltimore). viii, 118 pp. Paper, \$4.50. RFF Working Paper EN-6.

Energy Flow—Its Biological Dimensions. A Summary of the IBP in Canada 1964–1974. Thomas W. M. Cameron and L. W. Billingsley, Eds. Published for the Canadian Committee for the International Biological Programme by the Royal Society of Canada, Ottawa, 1975. x, 322 pp., illus. Paper, C\$5.

Engineering Geology. Quido Záruba and Vojtěch Mencl. Translated from the third Czech edition. Elsevier, New York, 1976. 504 pp., illus. \$37.50. Developments in Geotechnical Engineering 10.

Environment and Plant Ecology. John R. Etherington with a chapter by W. Armstrong. Wiley, New York, 1976. xii, 348 pp., illus. Paper, \$9.95. Reprint of the 1975 edition.

Essentials of Grammar. Domenico Parisi and Francesco Antinucci. Translated from the Italian edition (Turin, 1973) by Elizabeth Bates. Academic Press, New York, 1976. x, 182 pp. \$10. Language, Thought, and Culture.

Etude Qualitative de Fondements. Perspectives en Physique Fondamentale. A. Abdellatif and P. Delanoë. Published by the authors, Paris, 1976 (available from Art & Actualité, 19 Avenue de Ségur, Paris 75007). 156 pp., illus. Paper, 30 F.

Family Planning and Family Size Determination. The Evidence from Seven Latin American Cities. M. J. Carvajal and David T. Geithman. University Presses of Florida, Gainesville, 1976. vi, 98 pp. \$5. Latin American Monographs (Second Series), 18.

The Galactic Club. Intelligent Life in Outer Space. Ronald N. Bracewell. San Francisco Book Company, San Francisco, 1976 (distributor, Simon and Schuster, New York). xii, 144 pp., illus. Cloth, \$8.95; paper, \$3.95. The Portable Stanford Series. Reprint of the 1974 edition.

Genetic and Biochemical Aspects of the Development of *Datura*. Marie E. Conklin. Karger, Basel, 1976. x, 170 pp., illus. Paper, \$30.50. Monographs in Developmental Biology, vol. 12.

The Genetic Function of Mitochondrial DNA. Proceedings of a conference, Riva dei Tessali, Italy, May 1976. C. Saccone and A. M. Kroon, Eds. North-Holland, Amsterdam, 1976 (U.S. distributor, Elsevier, New York). xiv, 354 pp., illus. \$28.50.

La Géochimie. Francis Albarède and Michel Condomines. Presses Universitaires de France, Paris, 1976. 128 pp., illus. Paper, 6.90 F. Que Sais-Je? No. 759.

Geothermal Deposits. Origin, Evolution, and Present Characteristics. J. H. Tatsch. Tatsch Associates, Sudbury, Mass., 1976. vi, 292 pp., illus. \$84.

The Germanic People in America. Victor Wolfgang von Hagen. University of Oklahoma Press, Norman, 1976. xii, 404 pp., illus. \$12.50. English version of *Der Ruf der Neuen Welt* (Munich, 1970).

Global Geology. M. Aftab Khan. Wykeham, London, and Springer-Verlag, New York, 1976. x, 168 pp., illus. Paper, \$8.60.

Handbook of Chemistry and Physics. A Ready-Reference Book of Chemical and Physical Data. Robert C. Weast, Ed. CRC Press (Chemical Rubber Co.), Cleveland, ed. 57, 1976. Variously pagged. \$29.95.

Handbook of Common New Guinea Frogs. J. I. Menzies. Wau Ecology Institute, Wau, Papua New Guinea, 1976 (available from Bish-

(Continued on page 868)

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BOOKS RECEIVED

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op Museum Press, Honolulu). viii, 74 pp. + plates. \$3.20. Wau Ecology Institute Handbook No. 1.

Handbook of Enzyme Electrophoresis in Human Genetics. Harry Harris and D. A. Hopkinson. North-Holland, Amsterdam, and Elsevier, New York, 1976. Various pages. In loose-leaf binder, \$53.95.

Health Care. An International Study. Report of the World Health Organization/International Collaborative Study of Medical Care Utilization. Robert Kohn and Kerr L. White, Eds. Oxford University Press, New York, 1976. xxxiv, 558 pp., illus. \$26.50.

The Hopf Bifurcation and Its Applications. J. E. Marsden and M. McCracken with contributions by P. Chernoff and 13 others. Springer-Verlag, New York, 1976. xiv, 408 pp., illus. Paper, \$14.80. Applied Mathematical Sciences, vol. 19.

A House in Space. Henry S. F. Cooper, Jr. Holt, Rinehart and Winston, New York, 1976. viii, 184 pp., illus. \$8.95.

Humankind Emerging. Bernard G. Campbell, Ed. Little, Brown, Boston, 1976. xiv, 464 pp., illus. \$12.95.

Hunter-Gatherer Subsistence and Settlement. A Predictive Model. Michael A. Jochim. Academic Press, New York, 1976. xviii, 206 pp., illus. \$13.50. Studies in Archeology.

The Immunobiology of Mammalian Reproduction. Alan E. Beer and Rupert E. Billingham. Prentice-Hall, Englewood Cliffs, N.J., 1976. xvi, 240 pp., illus. \$18.95. Prentice-Hall Foundations of Immunology Series.

Immunological Response of the Female Reproductive Tract. Papers from a workshop, Geneva, Jan. 1975. B. Cınader and A. de Weck, Eds. Scriptor, Copenhagen, 1976 (available from the Human Reproduction Unit, World Health Organization, Geneva, Switzerland). 100 pp., illus. Paper.

Insights into Environmental Education. George C. Martin and Keith Wheeler. Oliver and Boyd (Longman), New York, 1976. xii, 200 pp. \$11.50.

International Journal of Psychoanalytic Psychotherapy. Vol. 5, 1976. Robert Langs, Ed. Aronson, New York, 1976. 598 pp. \$20.

An Introduction to Gas Discharges. A. M. Howatson. Pergamon, New York, ed. 2, 1976. x, 244 pp., illus. Cloth, \$13; paper, \$7.

Introduction to Modern Behaviorism. Howard Rachlin. Freeman, San Francisco, ed. 2, 1976. xiv, 250 pp., illus. Cloth, \$10; paper, \$4.95.

JCL and Advanced FORTRAN Programming. H.-Å. Ramdén. Elsevier, New York, 1976. viii, 170 pp. Paper, \$18.95. Methods in Geomathematics 2.

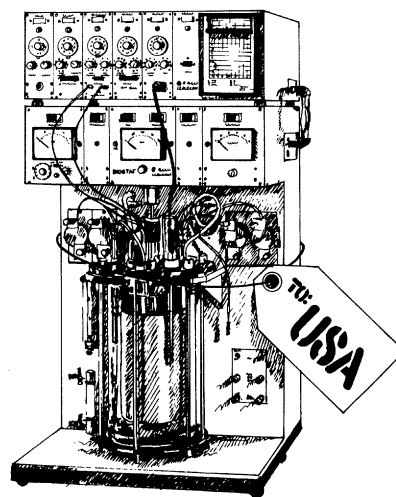
Laser 75 Opto-Electronics. Proceedings of a conference, Munich, June 1975. W. Waidelich, Ed. IPC Science and Technology Press, Guildford, Surrey, England, 1976. viii, 294 pp., illus. £22.

Lectures on Electromagnetic Theory. A Short Course for Engineers. L. Solymar. Oxford University Press, New York, 1976. xii, 252 pp., illus. \$24.25.

Linear Prediction of Speech. J. D. Markel and A. H. Gray, Jr. Springer-Verlag, New York, 1976. xii, 290 pp., illus. \$29.80. Communication and Cybernetics, 12.

Lunar Stratigraphy and Sedimentology. John F. Lindsay. Elsevier, New York, 1976. xiv, 302 pp., illus. \$28.95. Developments in Solar System- and Space Science, 3.

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Man in the Andes. A Multidisciplinary Study of High-Altitude Quechua. Paul T. Baker and Michael A. Little, Eds. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1976 (distributor, Halsted [Wiley], New York). xxii, 482 pp., illus. \$25. US/IBP Synthesis Series, 1.

Manual of Clinical Immunology. Noel R. Rose and Herman Friedman, Eds. American Society for Microbiology, Washington, D.C., 1976. xxvi, 932 pp., illus. Cloth, \$20; paper, \$16.

Manual on Urban Air Quality Management. M. J. Suess and S. R. Craxford, Eds. World Health Organization, Copenhagen, 1976 (U.S. distributor, Q Corp., Albany, N.Y.). 200 pp., illus. Paper, \$14.40. WHO Regional Publications European Series, No. 1.

Medicine in Chinese Cultures. Comparative Studies of Health Care in Chinese and Other Societies. Proceedings of a conference, Seattle, Feb. 1974. Arthur Kleinman, Peter Kunstadter, E. Russell Alexander, and James L. Gale, Eds. National Institutes of Health, Bethesda, Md., 1975 (available from the Superintendent of Documents, Washington, D.C.). xvi, 804 pp. \$11. A Publication of the Geographic Health Studies Project, John E. Fogarty International Center for Advanced Study in the Health Sciences, DHEW Publication No. (NIH) 75-653. Stock No. 017-053-00036-1.

Mitochondria. Structure, Biogenesis and Transducing Functions. H. Tedeschi. Springer-Verlag, New York, 1976. x, 164 pp., illus. \$36.50. Cell Biology Monographs, vol. 4.

Modeling the Bipolar Transistor. Ian Getreu. Tektronix, Beaverton, Ore., 1976. xii, 256 pp., illus. Paper, \$8.

Molecular and Cellular Mechanisms in Disease. Julien L. Van Lancker. Springer-Verlag, New York, 1976. Two volumes, illus. xvi + pp. 1-604 + index, and x + pp. 605-1116 + index. \$148.

Moths of Southern Africa. Descriptions and Colour Illustrations of 1183 Species. E. C. G. Pinhey. Tafelberg, Cape Town, South Africa, 1975 (U.S. distributor, Entomological Reprint Specialists, Los Angeles). xii, 274 pp. + plates. \$35.95.

The Nature of Causation. Myles Brand, Ed. University of Illinois Press, Urbana, 1976. x, 388 pp. \$11.95.

Normal and Deficient Child Language. Donald M. Morehead and Ann E. Morehead, Eds. University Park Press, Baltimore, 1976. xiv, 472 pp. \$14.95.


Of Wonders Wild and New. Dreams from Zinacantan. Robert M. Laughlin. Smithsonian Institution Press, Washington, D.C., 1976. xii, 178 pp., illus. Paper. Smithsonian Contributions to Anthropology, No. 22.

Optimal Design of Flexural Systems. Beams, Grillages, Slabs, Plates and Sheels. G. I. N. Rozvany. Pergamon, New York, 1976. Pergamon, New York, 1976. xvi, 298 pp., illus. Cloth, \$20; paper, \$12.50. Pergamon International Library.

Osteolathyrisms. Quantitativ-morphologische Untersuchungen der experimentellen Skeletterkrankung bei der Ratte. Hanns Plenck, Jr. Karger, Basel, 1976. viii, 102 pp., illus. Paper, \$19.50. Bibliotheca Anatomica, No. 14.

Proceedings of an International Conference on Marine Parks and Reserves. Tokyo, May 1975. International Union for Conservation of Nature and Natural Resources, Morges, Switzerland, 1976. 132 pp. Paper, \$6. IUCN Publications New Series, No. 37.

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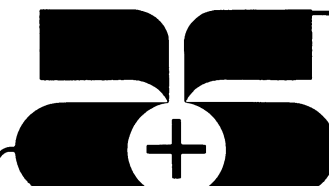


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compound	code	specific activity mCi/mmol	compound	code	specific activity mCi/mmol
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15,6,8,11,12,14,15(n)- ³ H]Prostaglandin A ₂	TRK 437	120,000-170,000	11- ¹⁴ C]Arachidonic acid	TRK 508	80,000-120,000
15,6,11,14,15(n)- ³ H]Prostaglandin B ₂	TRK 438	80,000-130,000	18,9,11,12,14,15(n)- ³ H]Eicosa-8,11,14-trienoic acid	CFA 504	>50
15,6(n)- ³ H]Prostaglandin E ₁	TRK 426	40,000-60,000			
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