cation has resulted in a volume that is comprehensive and authoritative, yet reasonably compact and inexpensive. In several respects, it does not give the details of the best current work, but it does give heuristic explanations and the references in which to look for the details.

The contents of the book are 4 percent introductory, 28 percent on dynamics, 28 percent on physical properties, 27 percent object-by-object discussions, and 13 percent hypotheses about origin. The earth's moon is discussed only to the extent to which its dynamics or circumstances of origin help understand satellites in general.

In the dynamical part, three articles pertain to orbits as they are and three to orbits and rotations as they have evolved. The most important chapter, by Burns, is a comprehensive review of orbit evolution that avoids mathematical detail but does not use diagrammatic explanations as a substitute as much as it might. A review of satellite rotation by Peale is a helpful complement to his more technical papers. Missing is a similar discussion of planetary rotation, with which satellite orbit evolution interacts (perhaps drastically in the case of Venus).

The part on physical properties is organized according to manner of observation: photometry, polarimetry, spectrophotometry, radiometry, and occultations, with comprehensive reviews by Veverka, Johnson and Pilcher, Morrison, and O'Leary. The part on objects is a more miscellaneous collection of nine articles, of which the most intriguing are the discussions of Titan by Hunten and of Io by Fanale and colleagues.

As could be expected, the part on origins is the most idiosyncratic, with three quite different views, very little crossreferenced: what might be called the astrophysicist's view, by Cameron; the plasma physicist's view, by De, Alfvén, and Arrhenius; and the dynamicist's view, by Safronov and Ruskol. At the end, there is an entertaining review of the moon's origin by Wood, in which he manages to place everyone's hypotheses on a schematic fission-accretion-capture triangle of lunar origin ideologies. Unfortunately, it is obsolete in that it does not include the recent "catastrophic" school of Cameron, Hartmann, Wetherill, and others. As has happened with the moon, more data about the other satellites will undoubtedly bring us to new plateaus of confusion and debate.

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## **Books Received**

Chemotherapy of Herpes Simplex Virus Infections. Papers from a meeting. J. S. Oxford, F. A. Drasar, and J. D. Williams, Eds. Published for the British Society for Antimicrobial Chemotherapy by Academic Press, New York, 1977. viii, 142 pp., illus. Paper, \$9.35. Reprinted from Supplement A of the Journal of Antimicrobial Chemotherapy, vol. 3, Mar. 1977.

Child Discourse. Papers from a symposium, Mexico City, Nov. 1974. Susan Ervin-Tripp and Claudia Mitchell-Kernan, Eds. Academic Press, New York, 1977. xii, 266 pp. \$9.50. Language, Thought, and Culture.

Cholesterol. John R. Sabine. Dekker, New York, 1977. xiv, 490 pp., illus. \$25.

**COBOL Programming.** A Structured Approach. Robert C. Nickerson. Winthrop, Cambridge, Mass., 1977. xviii, 318 pp., illus. Paper, \$9.95.

Color Atlas of Human Anatomy. R. M. H. McMinn and R. T. Hutchings. Year Book Medical Publishers, Chicago, 1977. 352 pp. \$27.95.

Computer Methods for Mathematical Computations. George E. Forsythe, Michael A. Malcolm, and Cleve B. Moler. Prentice-Hall, Englewood Cliffs, N.J., 1977. xii, 260 pp. \$15.95. Prentice-Hall Series in Automatic Computation.

Computer Methods in Image Analysis. J. K. Aggarwal, Richard O. Duda, and Azriel Rosenfeld, Eds. IEEE Press, New York, 1977 (U.S. distributor, Wiley, New York). vi, 466 pp., illus. Cloth. \$24.95; paper, \$14.95. IEEE Press Selected Reprint Series.

Computers in Nonassociative Rings and Algebras. Papers from a meeting, San Antonio, Tex., Jan 1976. Robert E. Beck and Bernard Kolman, Eds. Academic Press, New York, 1977. x, 298 pp. \$14.

Culture and Psychotherapy. Theodora M. Abel and Rhoda Métraux. College and University Press, New Haven, Conn., 1977. 314 pp. \$12. Reprint of the 1974 edition.

Cytology of Transudates and Exudates. Emmerich von Haam. Karger, Basel, 1977. vi, 124 pp., illus. \$21.50. Monographs in Clinical Cytology, vol. 5.

Data Structures, Computer Graphics, and Pattern Recognition. Papers from a conference, Los Angeles, May 1975. A. Klinger, K. S. Fu, and T. L. Kunii, Eds. Academic Press, New York, 1977. xiv, 498 pp., illus. \$23.

**Development in Mammals.** Vol. 2. Martin H. Johnson, Ed. North-Holland, Amsterdam, 1977 (U.S. distributor, Elsevier, New York). viii, 242 pp., illus. \$29.50.

Discrete Multivariate Analysis. Theory and Practice. Yvonne M. M. Bishop, Stephen E. Fienberg, and Paul W. Holland with the collaboration of Richard J. Light and Frederick Mosteller. MIT Press, Cambridge, Mass., 1977. x, 558 pp., illus. Paper, \$15. Reprint of the 1975 edition.

**Eating in America**. Dietary Goals for the United States. Report of the Select Committee on Nutrition and Human Needs, U.S. Senate. MIT Press, Cambridge, Mass., 1977. viii, 80 pp., illus. Paper, \$1.95.

Ecology and Behaviour of Nocturnal Primates. Prosimians of Equatorial West Africa. Pierre Charles-Dominique. Translated from the French by R. D. Martin. Columbia University Press, New York, 1977. x, 278 pp., illus. \$17.50.

Ecology of Marine Benthos. Papers from a symposium, Georgetown, S.C., May 1975.

Bruce C. Coull, Ed. Published for the Belle W. Baruch Institute for Marine Biology and Coastal Research by University of South Carolina Press, Columbia, 1977. xx, 468 pp., illus. \$27.50. Belle W. Baruch Library in Marine Science, No. 6.

The Economics of Fisheries Management. Lee G. Anderson. Johns Hopkins University Press, Baltimore, 1977. xviii, 214 pp., illus. \$14.

Effects of Labeling the "Drug-Abuser." An Inquiry. Jay R. Williams. National Institute on Drug Abuse, Rockville, Md., 1976 (available from the Superintendent of Documents, Washington, D.C.). vi, 40 pp. \$1.05. National Institute on Drug Abuse Research Monograph, 6.

Electrons in Finite and Infinite Structures. Papers from a NATO Advanced Study Institute, Ghent, Belgium, Aug. 1976. P. Phariseau and L. Scheire, Eds. Plenum, New York, 1977. viii, 444 pp., illus. \$45. NATO Advanced Study Institutes Series B, vol. 24.

Elements of Differential Geometry. Richard S. Millman and George D. Parker. Prentice-Hall, Englewood Cliffs, N.J., 1977. xvi, 266 pp., illus. \$16.95.

**Local Anesthetics**. Rudolph H. de Jong. Thomas, Springfield, Ill., ed. 2, 1977. xxiv, 338 pp., illus. \$32.50.

Manual of Neotropical Birds. Vol. 1, Spheniscidae (Penguins) to Laridae (Gulls and Allies). Emmet R. Blake. University of Chicago Press, Chicago, 1977. 1, 674 pp., illus. \$50.

**The Marine Environment.** John Lenihan and William W. Fletcher, Eds. Academic Press, New York, 1977. xiv, 170 pp., illus. \$14.50. Environment and Man, vol. 5.

Mathematical Games, Puzzles, and Fallacies. Sydney Lamb. Arco, New York, 1977. 72 pp., illus. Paper, \$1.95. Reprint of *The Magic of Numbers*.

The Nicholson Solar Energy Catalogue and Building Manual. Nick Nicholson. Baraka Books, New York, 1977. Variously paged. \$9.50

**Towards a Rational Philosophical Anthropology.** Joseph Agassi. Nijhoff, The Hague, 1977. x, 404 pp. Dfl. 57.50.

Vasectomy Counseling. Stephen D. Mumford. San Francisco Press, San Francisco, 1977. xii, 84 pp. Cloth, \$12; paper, \$6.

Vasectomy—The Decision-Making Process. A Guide for Promoters. Stephen D. Mumford. San Francisco Press, San Francisco, 1977. vi, 186 pp. \$15.

Volcanic Processes in Ore Genesis. Proceedings of a meeting, London, Jan. 1976. Institution of Mining and Metallurgy, London, and the Geological Society of London, London, 1977. vi, 188 pp., illus. Paper, \$20. Special Publication No. 7 of the Geological Society of London.

Water Re-Use and the Cities. Roger E. Kasperson and Jeanne X. Kasperson, Eds. Published for Clark University Press by University Press of New England, Hanover, N.H., 1977. 238 pp., illus. \$17.50.

Weak Interactions. David Bailin. Sussex University Press, Falmer, Brighton, England, 1977 (U.S. distributor, Crane, Russak, New York). x, 406 pp. \$18.95.

White Holes. Cosmic Gushers in the Universe. John Gribbin. Delacorte Press/Eleanor Friede, New York, 1977. viii, 296 pp., illus. Cloth, \$8.95; paper, \$4.95.

World Review of Nutrition and Dietetics. Vol. 27, Some Aspects of Human Nutrition. Geoffrey H. Bourne, Ed. Karger, Basel, 1977. x, 178 pp., illus. \$49.50.