

discusses the interpretation of accumulations of terrestrial vertebrate remains, including paleoanthropological implications. The next four chapters are devoted to diagenetic phases associated with fossilization—pyrites and carbonates (Canfield and Raiswell), phosphates (Lucas and Prévot), and silica (Carson). The final chapter of the book is a discussion by Speyer and Brett of interactions among taphonomic processes (background vs. episodic sedimentary phenomena) based on "taphofacies" identified in New York state. A 14-page subject index completes the book.

—KATHERINE LIVINGSTON

The Growth and Decay of Ice. G. S. H. LOCK. Cambridge University Press, New York, 1991. xviii, 434 pp., illus. \$100. Studies in Polar Research.

This book considers both the growth and the decay of ice in varied settings. The first chapter includes some poetry as well as discussions of ice in the heavens, the ice ages, the incidence of ice on the earth's surface, and the human response to ice. Next come accounts of the thermodynamics of ice and the Stefan problem that include, in

addition to the classical laws and basic principles, subjects such as metastability and the freezing point, nucleation and interfacial conditions, and numerical techniques. There follow four chapters that examine subject areas that Lock refers to as hydroglaciology, aeroglaciology, geoglaciology, and bioglaciology. Again the topics covered are highly varied: the formation and growth of lake and sea ice, effects of forced convection, freezing inside cavities and conduits, the formation of snow crystals, hailstones and hoar frost, sea spray and airborne icing and rime, frost penetration, the thermal regime of glaciers and ice sheets, the growth of nalds, the freezing of pore water in soils, permafrost, pingos, ice biota, the freezing of plasma, cryosurgery, and frozen food. The book concludes with a short chapter on the decay and melting of ice, which have received much less attention in the technical literature. The discussion presupposes some working knowledge of the principles of heat and mass transfer. The author is a mechanical engineer, and the book is stronger on the more formal and applied heat and mass transfer aspects of the subject matter than on their broader significance.—W. F. WEEKS, *University of Alaska, Fairbanks*

Books Received

Animal Models in Psychiatry. 1. Alan A. Boulton, Glen G. Baker, and Mathew T. Martin-Iverson, Eds. Humana, Clifton, NJ, 1991. xx, 411 pp., illus. \$89.50. Neuromethods, vol. 18.

The Application of Charge Density Research to Chemistry and Drug Design. George A. Jeffrey and Juan F. Piniella, Eds. Plenum, New York, 1991. xii, 409 pp., illus. \$110. NATO Advanced Science Institutes Series B, vol. 250. From a meeting, Costa Brava, Spain, April 1990.

The Archaeology Handbook. A Field Manual and Resource Guide. Bill McMillon. Wiley, New York, 1991. xii, 259 pp., illus. Paper, \$14.95.

The Archaeology of Inequality. Randall H. McGuire and Robert Paynter, Eds. Blackwell, Cambridge, MA, 1991. x, 295 pp., illus. Paper, \$19.95. Social Archaeology.

Atlas of Sponge Morphology. Atlas de Morphologie des Eponges. Louis De Vos et al. Smithsonian Institution Press, Washington, DC, 1991. xii, 177 pp., illus. \$35.

Atmospheric Data Analysis. Roger Daley. Cambridge University Press, New York, 1991. xiv, 457 pp., illus. \$79.50. Cambridge Atmospheric and Space Science Series, 2.

Atomic Dynamics in Liquids. N. H. March and M. P. Tosi. Dover, New York, 1991. x, 330 pp., illus. Paper, \$8.95. Reprint, 1976 ed.

Bioprocessing. Owen P. Ward. Van Nostrand Reinhold, New York, 1991. x, 198 pp., illus. \$52.95.

Bose Algebras. The Complex and Real Wave Representations. Torben T. Nielsen. Springer-Verlag, New York, 1991. vi, 139 pp., illus. Paper, \$16. Lecture Notes in Mathematics, 1472.

Bryozoaires Actuels et Fossiles. Bryozoa Living and Fossil. Françoise P. Bigey, Ed. Société des Sciences Naturelles de l'Ouest de la France, Nantes, 1991. xiv, 599 pp., illus. Paper, \$150. From a conference, Paris, July 1989. *Bulletin of the Society, Mémoire HSI.*

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