

thors argue that the analysis of gene-frequency diversity in America is rather more consistent with an earlier Amerind entry (15,000 to 30,000 years ago) than many American archeologists are ready to acknowledge.

The book contains three appendices. The first two provide allele frequencies for the 42 populations used in the global analysis, and for the 491 populations in the full database. Appendix 3 lists the primary sources from which the gene frequency data were obtained.

There is much to relish and much to challenge in this volume. Many will question the use of specific analytical methods (choice of distance statistic, tree-construction method, and synthetic map surface construction methods) or be frustrated at the ambiguities of sample pooling or the limitations of the analyses presented. For many, the lack of clear-cut criteria upon which a number of analytical decisions, such as the deletion of samples due to admixture, were made will be troubling. Similarly, "when points for calculating variogram curves were too few, the variogram was omitted from the gene maps" (p. 124). The criteria employed to make this judgment are not obvious, nor is the rationale for producing a map from what may be presumed to be very sparse and irregularly distributed observations.

These reservations, however, are modest. This is an impressive display of synthesis and analysis. Arguments regarding methods and approaches will be trivial if the original data are made available to other researchers as is implied in chapter 1. This is the most comprehensive treatment of human genetic variation available. If it provokes many to challenge its conclusions and hypotheses with increasingly sophisticated analyses, and I believe it will, it will likely play an important role in future research in anthropological genetics. It is especially appropriate that such a complete summary of the classical blood-group, serum-protein, and enzyme markers appears now, as we are rapidly generating the next generation of human genetic diversity data at the nucleotide level. Many of the deficiencies to be found in this volume are the deficiencies of data collection, of standardization, and ultimately of comparability. As the authors clearly note, we should learn from these deficiencies and coordinate, to a much greater degree than in the past, the nature of the genetic data now being accumulated on DNA markers. This is a lesson worth learning, and one that is clearly presented here.

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## Books Received

**The Asian City.** Processes of Development, Characteristics and Planning. Ashok K. Dutt *et al.*, Eds. Kluwer, Norwell, MA, 1994. xvi, 392 pp., illus. \$176 or £116 or Dfl. 275. GeoJournal Library, vol. 30.

**Atlas of Compact Groups of Galaxies.** Paul Hickson. Gordon and Breach, Langhorne, PA, 1994 (distributor, International Publishers Distributor, Brooklyn, NY). viii, 221 pp., illus. \$68 or £44 or ECU 57; paper, \$32 or £21 or ECU 27.

**Automotive Sensors.** M. H. Westbrook and J. D. Turner. Institute of Physics, Philadelphia, 1994. xviii, 253 pp., illus. \$149 or £75. Sensors Series.

**Basic Mechanisms of Physiologic and Aberrant Lymphoproliferation in the Skin.** W. Clark Lambert, Benvenuto Giannotti, and Willem A. van Vloten, Eds. Plenum, New York, 1994. xii, 651 pp., illus. \$135. NATO ASI Series A, vol. 265. Based on a workshop, San Miniato, Pisa, Italy, Oct. 1991.

**The Bell Curve.** Intelligence and Class Structure in American Life. Richard J. Herrnstein and Charles Murray. Free Press (Macmillan), New York, 1994. xxvi, 845 pp., illus. \$30.

**Beta<sub>3</sub>-Adrenergic Agonism.** A New Concept in Human Pharmacotherapy. Daniel E. Goldberg and William H. Frishman. Futura, Armonk, NY, 1994. x, 198 pp., illus. \$35.

**Blondes in Venetian Paintings, the Nine-Banded Armadillo, and Other Essays in Biochemistry.** Konrad Bloch. Yale University Press, New Haven, CT, 1995. xiv, 261 pp., illus. \$30.

**The Book of Genesis.** Exploring Realistic Neural Models with the GEneral NEural Simulation System. James M. Bower and David Beeman. Springer-Verlag, New York, 1994. xx, 409 pp., illus. \$49.95.

**The Book of Ingenious and Diabolical Puzzles.** Jerry Slocum and Jack Botermans. Times, New York, 1995. viii, 152 pp., illus. \$19.50.

**The Brackish-Water Fauna of Northwestern Europe.** An Identification Guide to Brackish-Water Habitats, Ecology and Macrofauna for Field Workers, Naturalists and Students. R. S. K. Barnes. Cambridge University Press, New York, 1994. xvi, 287 pp., illus. \$64.95; paper, \$24.95.

**Circuits of the Mind.** Leslie G. Valiant. Oxford University Press, New York, 1994. xvi, 237 pp., illus. \$49.95.

**Complex Dynamics.** R. Livi, J.-P. Nadal, and N. Packard, Eds. Nova, Commack, NY, 1994. viii, 310 pp., illus. \$97. Les Houches Series. From a workshop, Les Houches, France, Mar. 1990.

**Computational Analysis of Visual Motion.** Amar Mitiche. Plenum, New York, 1994. xvi, 235 pp., illus. \$65. Advances in Computer Vision and Machine Intelligence.

**Condensed Matter Theories.** Vol. 9. John W. Clark, Khan A. Shoaib, and Abdullah Sadiq, Eds. Nova, Commack, NY, 1994. xvi, 543 pp., illus. \$98.

**Coping with War-Induced Stress.** The Gulf War and the Israeli Response. Zahava Solomon. Plenum, New York, 1994. xxvi, 254 pp., illus. \$39.50. Plenum Series on Stress and Coping.

**Cultivating Crisis.** The Human Cost of Pesticides in Latin America. Douglas L. Murray. University of Texas Press, Austin, 1995. xiv, 177 pp., illus. \$35; paper, \$17.95.

**The Cultures of Science.** Marjorie Senechal, Ed. Nova, Commack, NY, 1994. viii, 93 pp., illus. \$49. From a symposium series, Oct. 1992.

**Cytokines in Human Multiple Myeloma.** Bernard Klein, Régis Bataille, and Jean Luc Harousseau. Landes, Georgetown, TX, 1994 (distributor, CRC Press, Boca Raton, FL). viii, 116 pp., illus. \$89.95. Medical Intelligence Unit.

**Dioxins and Health.** Arnold Schechter. Plenum, New York, 1994. xxii, 710 pp., illus. \$125.

**DNA Structure and Function.** Richard R. Sinden. Academic Press, San Diego, CA, 1994. xxiv, 398 pp., illus. \$49.95.

**Drug Use and Abuse.** Stephen A. Maisto, Mark Galizio, and Gerard J. Connors. 2nd ed. Harcourt Press (Harcourt Brace), Fort Worth, TX, 1994. xx, 500 pp., illus. Paper, \$15.95.

**Environmental Deceptions.** The Tensions Between Liberalism and Environmental Policymaking in the United States. Matthew Alan Cahn. State University of New York Press, Albany, 1995. xii, 179 pp. \$19.95. SUNY Series in

International Environmental Policy and Theory.

**Environmental Health Risks and Public Policy.** Decision Making in Free Societies. David V. Bates. University of Washington Press, Seattle, 1995. xii, 117 pp., illus. \$30; paper, \$12.95. Jessie and John Danz Lecture Series.

**The Environmental Imagination.** Thoreau, Nature Writing, and the Formation of American Culture. Lawrence Buell. Harvard University Press, Cambridge, MA, 1995. xii, 587 pp., illus. \$35.

**Environmental Inequalities.** Class, Race, and Industrial Pollution in Gary, Indiana, 1945-1980. Andrew Hurley. University of North Carolina Press, Chapel Hill, 1995. xx, 246 pp., illus. \$39.95; paper, \$16.95.

**Equity Issues for Women in Archeology.** Margaret C. Nelson, Sarah M. Nelson, and Alison Wylie, Eds. American Anthropological Association, Washington, DC, 1994. xii, 236 pp., illus. Paper, \$25. Archeological Papers of the American Anthropological Association, no. 5.

**Explorations Beyond the Machine.** A Philosophy of Social Science for the Post-Newtonian Age. Ian T. King. Nova, Commack, NY, 1994. x, 277 pp. \$69. Mamardashvili Series on Philosophy, Psychology and Sociology.

**Exploring Social, Political and Economic Organization in the Zuni Region.** Todd L. Howell and Tammy Stone, Eds. Arizona State University, Tempe, 1994. x, 130 pp., illus. Paper, \$17.50. Anthropological Research Papers, no. 46.

**The Human Endometrium.** Carlo Bullett, Erlo Gurpide, and Carlo Flamigni, Eds. New York Academy of Sciences, New York, 1994. xii, 500 pp., illus. \$155. Annals of the New York Academy of Sciences, vol. 734. From a conference, Bologna, Italy, Sept. 1993.

**The Human Volcano.** Population Growth as Geologic Force. Jon Erickson. Facts on File, New York, 1995. x, 210 pp., illus. \$24.95 or \$C31.95. The Changing Earth Series.

**Minding the Helm.** Marine Navigation and Piloting. National Research Council Committee on Advances in Navigation and Piloting. National Academy Press, Washington, DC, 1994. xxii, 500 pp., illus. \$54.95.

**Modern Methods in Analytical Morphology.** Jiang Gu and Gerhard W. Hacker, Eds. Plenum, New York, 1994. xii, 445 pp., illus. \$125. From a workshop, Salzburg, Austria, Sept. 1992.

**Molecular Genetics in Surgical Oncology.** Jeffrey F. Moley and Steve H. Kim. Landes, Georgetown, TX, 1994 (distributor, CRC Press, Boca Raton, FL). vi, 112 pp., illus. \$89.95. Medical Intelligence Unit.

**More Than One Mystery.** Explorations in Quantum Interference. Mark P. Silverman. Springer-Verlag, New York, 1994. xiv, 212 pp., illus.

**Multisensor Integration and Fusion for Intelligent Machines and Systems.** Ren C. Luo and Michael G. Kay, Eds. Ablex, Norwood, NJ, 1995. xvi, 688 pp., illus. \$85.

**The Muon Method in Science.** V. P. Smilga and Yu. M. Belousov. Nova, Commack, NY, 1994. xii, 420 pp., illus. Proceedings of the Lebedev Physics Institute, vol. 219.

**Patrick Suppes, Scientific Philosopher.** Vol. 3, Language, Logic, and Psychology. Paul Humphreys, Ed. Kluwer, Norwell, MA, 1994. vii, 344 pp., illus. \$146 or £116 or Dfl. 290. Synthese Library, vol. 235.

**Peptidases and Neuropeptide Processing.** A. Ian Smith, Ed. Academic Press, San Diego, CA, 1994. xvi, 407 pp., illus. \$95. Methods in Neurosciences, vol. 23.

**Photobiology in Medicine.** Giulio Jori *et al.* Plenum, New York, 1994. x, 190 pp., illus. \$75. NATO ASI Series A, vol. 272. From an institute, Alghers, Italy, Sept.-Oct. 1993.

**Physical and Related Properties of 145 Timbers.** Information for Practice. Jan F. Ruijskijk and Peter B. Laming. Kluwer, Norwell, MA, 1994. viii, 380 pp., illus. \$105 or £70 or Dfl. 170. TNO Building and Construction Research, Centre for Timber Research.

**Physiology and Determination of Crop Yield.** K. J. Boote *et al.*, Eds. American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, Madison, WI, 1994. xxii, 601 pp., illus. \$66. Based on a symposium, Gainesville, FL, June 1991.

**Simplified Building Design for Wind and Earthquake Forces.** James Ambrose and Dimitry Vergun. 3rd ed. Wiley, New York, 1995. x, 355 pp., illus. \$49.95. Parker/Ambrose Series of Simplified Design Guides.