

lian scheme a difficult task. For example, there are questions about the global versus the local nature of nematic order in polymeric liquid crystals, the role of nematic-isotropic fluctuations in polymeric nematics, and—most challenging of all—defining a smectic layer in a main-chain liquid crystalline polymer. The chapter deals with some but not all of these issues. With regard to smectic layers, an interesting question has been whether or not segregation by molar mass takes place in polydisperse materials. On this issue the authors point out that exact segregation of the ends of rigid chains into sharply defined layers is impossible. Obviously, many unknowns remain with regard to the nature of molecular organization in polymeric liquid crystals.

The blossoming of liquid crystalline polymer science over the last two decades has been much more than a simple extension of the well-established science of liquid crystals. Synthetic work has demonstrated that most of the covalent linkages used to build the periodic or aperiodic sequences of polymers are compatible with liquid crystallinity. Liquid crystalline polymers will therefore continue to gain importance in macromolecular science and in the development of polymer technology. This book will serve as an excellent guide to the subject for students of materials science, chemistry, and physics.

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## Correction and Updating

In the heading of David Cassidy's review of *The Private Lives of Albert Einstein* (18 February, p. 997) the price of the book as sold by its British publisher, Faber and Faber, was given incorrectly; the correct price is £15.99. The book is also to be published in the United States by St. Martin's Press, New York, in April, at a price of \$23.95.

## Books Received

**The Adhesion Molecule FactsBook.** Rod Pigott and Christine Power. Academic, San Diego, CA, 1993. viii, 190 pp., illus. Paper, \$19.50. FactsBook Series.

**The African Leopard.** Ecology and Behavior of a Solitary Felid. Theodore N. Bailey. Columbia University Press, New York, 1994. xviii, 429 pp., illus. \$65. Biology and Resource Management in the Tropics Series.

**Biology and Pathology of Astrocyte-Neuron Interactions.** Sergey Fedoroff, Bernhard H. J. Juurlink, and Ronald Doucette, Eds. Plenum, New York, 1993. xii, 458 pp., illus. \$125. Altschul Symposia Series, vol. 2. From a symposium, Saskatoon, Canada, May 1992.

**The Book of the Pearl.** The History, Art, Science and Industry of the Queen of Gems. George Frederick Kunz and Charles Hugh Stevenson. Dover, New York, 1993. xx, 548 pp., illus. Paper, \$17.95. Reprint, 1908 ed.

**Catalog of Recent Mammal Types in the American Museum of Natural History.** Marie A. Lawrence. American Museum of Natural History, New York, 1993. 200 pp., illus. Paper, \$17. Bulletin of the American Museum of Natural History, no. 217.

**Characteristics of Distributed-Parameter Systems.** Handbook of Equations of Mathematical Physics and Distributed-Parameter Systems. A. G. Butkovskiy and L. M. Pustyl'nikov. Kluwer, Norwell, MA, 1993. xx, 386 pp. \$162 or £109 or Dfl. 285. Mathematics and Its Applications, vol. 266. Translated from the Russian by Robert Piché.

**Diverging Pathways.** Social Structure and Career Deflections. Alan C. Kerckhoff. Cambridge University Press, New York, 1993. xxii, 254 pp., illus. \$99.95.

**Duality and Perturbation Methods in Critical Point Theory.** Nassif Ghoussoub. Cambridge University Press, New York, 1993. xviii, 258 pp. \$49.95. Cambridge Tracts in Mathematics, 107.

**The Early Days of Yeast Genetics.** Michael N. Hall and Patrick Linder, Eds. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1993. x, 477 pp., illus. \$75.

**Emotional Contagion.** Elaine Hatfield, John T. Cacioppo, and Richard L. Rapson. Cambridge University Press, New York, 1993. viii, 240 pp., illus. \$59.95; paper, \$16.95. Studies in Emotion and Social Interaction.

**Fifth International Conference on the Spectroscopy of Biological Molecules (Loutaki, Greece, Sept. 1993.)** Theophile Theophanides, Jane Anastasopoulou, and Nikolaos Fotopoulos, Eds. Kluwer, Norwell, MA, 1993. xviii, 409 pp., illus. \$147 or £99.50 or Dfl. 260.

**Free for All?** Lessons from the RAND Health Insurance Experiment. Joseph P. Newhouse and The Insurance Experiment Group. Harvard University Press, Cambridge, MA, 1994. xii, 489 pp., illus. \$49.95. A RAND Study.

**Genera of the Pottiaceae.** Mosses of Harsh Environments. Richard H. Zander. Patricia M. Eckel, illustrator. Buffalo Society of Natural Sciences, Buffalo, NY, 1993. vi, 378 pp. \$44. Bulletin of the Buffalo Society of Natural Sciences, vol. 32.

**Guided Participation in Cultural Activity by Toddlers and Caregivers.** Barbara Rogoff et al. University of Chicago Press, Chicago, 1993. vi, 183 pp., illus. Paper, \$14. Monographs of the Society for Research in Child Development, serial no. 236, vol. 58, no. 8.

**The Handbook of Research Synthesis.** Harris Cooper and Larry V. Hedges, Eds. Russell Sage Foundation, New York, 1993. xvi, 573 pp., illus. \$49.95.

**Human Body Composition.** *In Vivo* Methods, Models, and Assessment. Kenneth J. Ellis and Jerry D. Eastman, Eds. Plenum, New York, 1993. xvi, 400 pp., illus. \$110. Basic Life Sciences, vol. 60. From a symposium, Houston, TX, Nov. 1992.

**Intellectual Property Rights.** Protection of Plant Materials. P. Stephen Baenziger, Roger A. Kleese, and Robert F. Barnes, Eds. Crop Science Society of America, Madison, WI, 1993. xii, 187 pp., illus. Paper, \$20. CSSA Special Publication no. 21. From a workshop, Washington, DC, Jan 1993.

**Introductory Polymer Chemistry.** G. S. Misra. Wiley, New York, 1993. xx, 253 pp., illus. \$37.95.

**Ionization Waves in Electrical Breakdown of Gases.** A. N. Lagarkov and I. M. Rutkevich. Springer-Verlag, New York, 1993. xii, 231 pp., illus. \$59.

**Kant and Critique.** New Essays in Honor of W. H. Werkmeister. R. M. Dancy, Ed. Kluwer, Norwell, MA, 1993. viii, 196 pp. \$79 or £56 or Dfl. 135. Synthese Library, vol. 227. From a conference, Tallahassee, FL, April 1991.

**The Large N Expansion in Quantum Field Theory and Statistical Physics.** From Spin Systems to 2-Dimensional Gravity. Edouard Brézin and Spenta R. Wadia, Eds. World Scientific, River Edge, NJ, 1993.

**Logical Environments.** Gérard Huet and Gordon Plotkin, Eds. Cambridge University Press, New York, 1993. xiv, 338 pp., illus. \$49.95. From a workshop,

Edinburgh, May 1991. xiv, 1130 pp., illus. \$128; paper, \$68.

**Magnetism and Structure in Systems of Reduced Dimension.** Robin F. C. Farrow et al., Eds. Plenum, New York, 1993. xii, 509 pp., illus. \$129.50. NATO Advanced Science Institutes Series B, vol. 309. From a workshop, Cargèse, Corsica, France, June 1992.

**Managing Wastewater in Coastal Urban Areas.** Commission on Engineering and Technical Systems. National Academy Press, Washington, DC, 1993. xviii, 477 pp., illus. \$49.95.

**The Mathematica Programmer.** Roman E. Maeder. AP Professional, Cambridge, MA, 1993. xvi, 199 pp., illus., + plates and diskette. Paper, \$44.95.

**Naturalistic Environments in Captivity for Animal Behavior Research.** Edward F. Gibbons, Jr. et al., Eds. State University of New York Press, Albany, 1994. xiv, 387 pp., illus. \$17.95. SUNY Series in Endangered Species.

**Nuclear Magnetic Resonance of Liquid Crystals.** Ronald Y. Dong. Springer-Verlag, New York, 1993. xiv, 260 pp., illus. \$59. Partially Ordered Systems.

**Ocean Reverberation.** Dale D. Ellis, John R. Preston, and Heinz G. Urban, Eds. Kluwer, Norwell, MA, 1993. xii, 403 pp., illus. \$133 or £89 or Dfl. 225. From a symposium, La Spezia, Italy, May 1992.

**Optics and Nonlinear Optics of Liquid Crystals.** lam-Choon Khoo and Shin-Tson Wu. World Scientific, River Edge, NJ, 1993. xii, 425 pp., illus. \$64; paper, \$32. Series in Nonlinear Optics, vol. 1.

**Parallelism in the Numerical Integration of Initial Value Problems.** B. P. Sommeijer. Centrum voor Wiskunde en Informatica, Amsterdam, 1993. vi, 195 pp., illus. Paper, Dfl. 50. CWI Tract 99.

**Parasitic Infections and the Immune System.** Felipe Kierszenbaum, Ed. Academic Press, San Diego, CA, 1993. xii, 254 pp., illus. \$70.

**A Quantum Measurement Approach to Tunneling.** Dilip K. Roy. World Scientific, River Edge, NJ, 1993. xii, 116 pp., illus. \$38.

**The Rise of Early Modern Science.** Islam, China, and the West. Toby E. Huff. Cambridge University Press, New York, 1993. xiv, 409 pp., illus. \$54.95.

**Risk Assessment Methods.** Approaches for Assessing Health and Environmental Risks. Vincent T. Covello and Miley W. Merkhofer. Plenum, New York, 1993. xiv, 319 pp., illus. \$59.50.

**Salmon Aquaculture.** Knut Heen, Robert L. Monahan, and Fred Utter, Eds. Halsted, New York, 1994. x, 278 pp., illus. \$59.95.

**Textbook of AIDS Medicine.** Samuel Broder, Thomas C. Merigan, Jr., and Dani Bolognesi, Eds. Williams and Wilkins, Baltimore, MD, 1993. xx, 951 pp., illus. \$150.

**Theism, Atheism, and Big Bang Cosmology.** William Lane Craig and Quentin Smith. Clarendon (Oxford University Press), New York, 1993. x, 342 pp. \$45.

**Ultrashort Processes in Condensed Matter.** Walter E. Bron, Ed. Plenum, New York, 1993. viii, 398 pp., illus. \$115. NATO Advanced Science Institutes Series B, vol. 314. From an institute, Lucca, Italy, Aug. 1992.

**The Undivided Universe.** An Ontological Interpretation of Quantum Theory. D. Bohm and B. J. Hiley. Routledge, New York, 1993. xii, 397 pp., illus. \$29.95.

**Using Energy.** Sally and Adrian Morgan. Facts on File, New York, 1993. 48 pp., illus. \$14.95. Designs in Science.

**A View of the Universe.** David Malin. Sky, Cambridge, MA, and Cambridge University Press, New York, 1993. xviii, 266 pp., illus. \$39.95.

**The Vulnerable Child.** Vol. 1. Theodore B. Cohen, M. Hossein Etezady, and Bernard L. Pacella, Eds. International Universities Press, Madison, CT, 1994. xxiv, 275 pp. \$40.

**Wave Propagation in the Ionosphere.** K. Rawer. Kluwer, Norwell, MA, 1993. xvi, 486 pp., illus. \$175 or £116 or Dfl. 295. Developments in Electromagnetic Theory and Applications, vol. 5.

**Webs and Scales.** Physical and Ecological Processes in Marine Fish Recruitment. Michael M. Mullin. Washington Sea Grant Program, Seattle, WA, 1994 (distributor, University of Washington Press, Seattle). xii, 135 pp., illus. \$25; paper, \$15. Books in Recruitment Fishery Oceanography.