

The following books have been received in the offices of *The Industrial Physicist*. Comments and questions may be addressed to Yolanda Bynum, One Physics Ellipse, College Park, MD 20740-3843; tel. 301-209-3004; fax 301-209-0842; e-mail bynum@aip.org.

Absorbing Boundaries and Layers, Domain Decomposition Methods. L. Tourrette, L. Halpern. Nova Science Publishers Inc., Huntington, New York, 2001. 380 pp. \$79.00 *hb* ISBN 1-66072-940-6.

Advanced Monte Carlo for Radiation Physics, Particle Transport Simulation and Applications. A. Kling, F. Barao, M. Nakagawa, L. Tavora, P. Vaz, eds. Springer-Verlag, Berlin, Heidelberg, New York, 2001. 1192 pp. \$219.00 *hb* ISBN 3-540-41795-8.

Alkali Halides: A Handbook of Physical Properties. D. Sirdeshmukh, L. Sirdeshmukh, K. Subhadra. Springer-Verlag, Berlin, Heidelberg, New York, 2001. 284 pp. \$99.95 *hb* ISBN 3-540-42180-7.

Atomic and Molecular Spectroscopy: Basic Aspects and Practical Applications. Sune Svanberg. Springer-Verlag, Berlin, Heidelberg, New York, 2001. 586 pp. \$99.00 *hb* ISBN 3-540-67432-2.

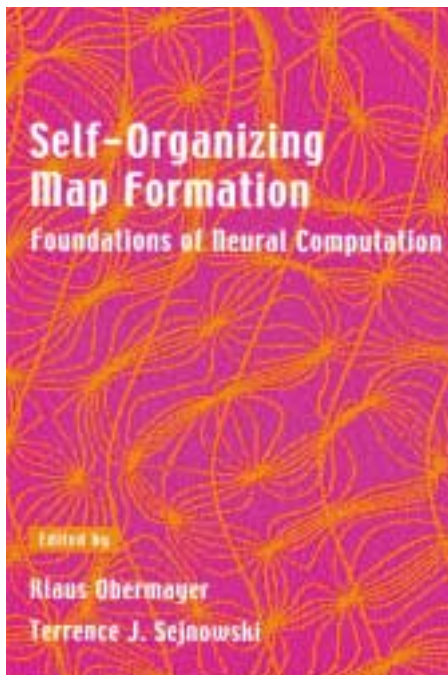
Automata Theory and its Applications. Bakhadyr Khoussainov, Anil Nerode. Birkhauser, Boston, Basel, Berlin, 2001. 430 pp. \$69.95 *hb* ISBN 0-8176-4207-2.

Clean Electricity from Photovoltaics. Mary D. Archer, Robert Hill. Imperial College Press, London, 2001. 844 pp. \$161.00 *hb* ISBN 1-86094-161-3.

Computational Information Retrieval. Michael W. Berry. Society for Industrial and Applied Mathematics, Philadelphia, 2001. 185 pp. \$38.00 *pb* ISBN 0-89871-500-8.

Computing in Nonlinear Media and Automata Collectives. Andrew Adamatzky. Institute of Physics Publishing, Bristol and Philadelphia, 2001. 395 pp. \$120.00 *hb* ISBN 0-7503-0751-X.

Computational Physics. Frank J. Vesley. Kluwer Academic Publishers, Boston, Dor-



recht, London, Moscow, 2001. 259 pp. \$60.00 *hb* ISBN 0-306-46631-7.

Crystal Heat Flow: A Guide to Measurement & Modeling. Graeme R. Beardsmore, James P. Cull. Cambridge University Press, 2001. 321 pp. \$100.00 *hb* \$37.95 *pb* ISBN 0-521-79289-4, *hb* ISBN 0-521-79703-9.

Cryptography and Computational Number Theory. Kwok-Yan Lam, Igor Shparlinski, Huaxiong Wang, Chaoping Xing. Birkhauser Verlag, Basel, Boston, Berlin, 2001. 378 pp. \$109.00 *hb* ISBN 3-7643-6510-2.

Current Topics in Computational Molecular Biology. Tao Jiang, Ying Xu, Michael Zhang. The MIT Press, London, 2001. 542 pp. \$55.00 *hb* ISBN 0-262-10092-4.

Earth-Moon Relationships. Cesare Barbieri, Francesca Rampazzi, eds. Kluwer Academic Publishers, Dordrecht, Boston, London, 2001. 575 pp. \$199.00 *hb* ISBN 0-7923-7089-9.

Electromagnetic Scintillation. Albert Wheelon. Cambridge University Press, 2001. 455 pp. *hb* ISBN 0-521-80198-2.

Electron Energy Loss Spectroscopy. Rik Brydson. BIOS Scientific Publishers Ltd., Oxford, 2001. 137 pp. \$49.95 *hb* ISBN 1-85996-134-7.

Electronic Properties of Molecular Nanostructures. Hans Kuzmany, Jorg Fink, Michael Mehring, Siegmund Roth. American Institute of Physics, Melville, New York, 2001. 633 pp. \$195.00 *hb* ISBN 0-7354-0033-4.

Face Images Analysis by Unsupervised Learning. Marian Stewart Bartlett. Kluwer Academic Publishers, Boston, Dordrecht, London, 2001. 167 pp. \$95.00 *pb* ISBN 0-7923-7348-0.

Foundations of Hadronic Chemistry with Applications to New Clean Energies and Fuels. Ruggero Maria Santilli. Kluwer Academic Publishers, Dordrecht, Boston, London, 2001. 397 pp. \$138.00 *hb* ISBN 1-4020-0087-1.

Fundamental Physics of Ferroelectrics. Henry Krakauer. American Institute of Physics, Melville, New York, 2001. 240 pp. \$135.00 *hb* ISBN 0-7354-0021-0.

Graduate Texts in Mathematics. William Arveson. Springer-Verlag, Berlin, Heidelberg, New York, 2001. 135 pp. \$39.95 *hb* ISBN 0-387-95300-0.

Graphical Models: Foundations of Neural Computation. Michael I. Jordan, Terrence J. Sejnowski. The MIT Press, Cambridge, Massachusetts, London, 2001. 421 pp. \$32.95 *hb* ISBN 0-262-60042-0.

Handbook of Materials Behavior Models. Jean Lemaitre. Academic Press, San Diego, San Francisco, New York, Boston, 2001. 1200 pp. \$795.00 *hb* ISBN 0-12-443344-8.

IMPACT: The Theory and Physical Behavior of Colliding Solids. Werner Goldsmith. Dover Publications, Mineola, New York, 2001. 379 pp. \$19.95 *pb* ISBN 0-486-42004-3.

Information and Measurement. J. C. G. Lesurg. Institute of Physics Publishing, Bristol, Philadelphia, 2001. 295 pp. \$50.00 *pb* ISBN 0-7503-0823-0.

Introduction to Information Optics. Francis T. S. Yu, Suganda Jutamulia, Shizhuo Yin. Academic Press, San Diego, San Francisco, New York, Boston, London, Sydney, Tokyo, 2001. 734 pp. \$99.95 *hb* ISBN 0-12-774811-3.

Magnetism and Synchrotron Radiation. J. P. Kappler, eds. Springer-Verlag, Berlin, Heidelberg, New York, 2001. 388 pp. \$74.00 *hb* ISBN 3-540-42047-9.

Molecular Biology of the Cell. Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter. Garland Publishing Inc., Hamden, Connecticut, 2002. 1616 pp. \$102.00 *hb* ISBN 0-8153-3218-1.

Nanonetwork Materials. Susumu Saito, Tsuneya Ando, Yoshihiro Iwasa, Koichi Kikuchi, Mototada Kobayashi, Yahachi Saito. American Institute of Physics, Melville, New York, 2001. 556 pp. \$165.00 *hb* ISBN 0-7354-0032-6.

Newton to Einstein: The Trail of Light: An Excursion to The Wave-Particle Duality and the Special Theory of Relativity. Ralph Baierlein. Cambridge University Press, Boston, Dordrecht, London, 2001. 329 pp. \$29.95 *pb* ISBN 0-521-42323-6.

Nonimaging Fresnel Lenses: Design and Performance of Solar Concentrators. R. Leutz, A. Suzuki. Springer-Verlag, Berlin, Heidelberg, New York, 2001. 272 pp. \$79.95 *hb* ISBN 3-540-41841-5.

Nonlinear Physics with Mathematica for Scientists and Engineers. Richard H. Enns, George C. McGuire. Birkhauser, Boston, Basel, Berlin, 2001. 691 pp. \$79.95 *hb* ISBN 0-8176-4223-4.

Optical Networks: A Practical Perspective. Rajiv Ramaswami, Kumar N. Sivarajan. Morgan Kaufman Publishers, San Francisco, 2002. 831 pp. \$69.95 *hb* ISBN 1-55860-655-6.

Permanent Magnet and Electromechanical Devices. Edward Furlani. Academic Press, San Diego, San Francisco, New York, 2001. 518 pp. \$149.95 *hb* ISBN 0-12-269951-3.

Physical Principles of Remote Sensing. W. G. Rees. Cambridge University Press, London, New York, 2001. 343 pp. \$39.95 *pb* \$110.00 *pb* ISBN 0-521-66948-0.

Physics of, and Science with, the X-Ray Free-Electron Laser. S. Chattopadhyay, M. Cornacchia, I. Lindau, C. Pellegrini. American Institute of Physics, Melville, New York, 2001. 236 pp. \$140.00 *hb* ISBN 0-7354-0022-9.

Radiation at Home, Outdoors and in the Workplace. Dag Brune, Ragnar Hellborg, Bertil R. R. Persson, Rauno Paakkonen. Scandinavian Science Publishers, Oslo, Norway, 2001. 547 pp. \$95.00 *hb* ISBN 82-91833-02-8.

Radio Frequency Power in Plasmas. Tak Mau, J. deGrassie. American Institute of Physics, Melville, New York, 2001. 544 pp. \$175.00 *hb* ISBN 0-7354-0038-5.

Rarefied Gas Dynamics. Timothy J. Bartel, Michael A. Gallis. American Institute of Physics, Melville, New York, 2001. 797 pp. \$295.00 *hb* ISBN 0-7354-0025-3.

Reviews in Mineralogy & Geochemistry: Stable Isotope Geochemistry. John W. Valley, David R. Cole. Mineralogical Society of America, Washington, D.C. 2001. 662 pp. \$32.00 *pb* ISBN 0-939950-55-3.

Rock Magnetism Fundamentals and Frontiers. David J. Dunlop, Ozden Oszdemir. Cambridge University Press, New York, 2001. 573 pp. \$49.95 *pb* ISBN 0-521-00098-X.

Schlieren and Shadowgraph Techniques. G. S. Settles. Springer-Verlag, Berlin, Heidelberg, New York, 2001. 376 pp. \$89.95 *hb* ISBN 3-540-66155-7.

Self-Organizing Map Formation: Foundations of Neural Computation. Klaus Obermayer, Terrence J. Sejnowski. The MIT Press, Cambridge, Massachusetts, London, 2001. 440 pp. \$34.95 *pb* ISBN 0-262-65060-6.

Soil Physics Companion. A. W. Warrick. CRC Press, Boca Raton, London, New York, 2001. 389 pp. \$74.95 *hb* ISBN 0-8493-0837-2.

Solid Surfaces, Interfaces and Thin Films. Hans Luth. Springer-Verlag, Berlin, Heidelberg, New York, 2001. 559 pp. \$59.95 *hb* ISBN 3-540-42331-1.

Spatial Solitons. S. Trillo, W. Torruellas. Springer-Verlag, Berlin, Heidelberg, New York, 2001. 454 pp. \$109.00 *hb* ISBN 3-540-41653-6. 