tists would define it much more broadly today than even five years ago. Jones defines soft condensed matter as "materials in states of matter that are neither simple liquids nor crystalline solids of the type studied in other branches of solid state physics" (p. 1). He adopts the rather traditional approach of focusing primarily on complex fluids, including colloids, surfactant solutions, polymer solutions, and liquid crystals. He also discusses polymer melts, block copolymers, and biomolecules.

A second important decision is how to organize the material. Should the book be organized around concepts that unify the field or around material problems that define it? Jones chooses a mixture of the two. He has several chapters that focus on generic soft materials; these include chapters on colloids, polymers, and biological materials. Other important classes of materials are combined with concepts. Thus gels are discussed in a chapter about gelation; liquid crystals are discussed in a chapter about partial order in soft materials; and amphiphilic molecules, both surfactants and block copolymers, are covered in a chapter on self-assembly. Additional chapters discuss such important conceptual themes as phase transitions. An introductory chapter discusses key concepts that define soft condensed matter, including relevant scales of energy, length, and time. Although such organization is mixed, it works reasonably well to introduce materials and unify concepts.

The book, intended for a one-term introductory course in soft condensed matter, is rather short and agreeably terse in style. However, the brevity required some hard choices among topics, and Jones omits several important ones. For example, he does not mention foams, emulsions, granular materials, or interfacial films. He says little about experimental techniques that have been critical to the field. But given the necessity of selecting, I think Jones has done a good job.

Soft Condensed Matter is well formatted as a modern textbook, with large margins that contain extra information and highlight important points in the text. Each chapter has problem sets and recommendations for related texts and papers. Appendices discuss some basic concepts of statistical physics, but some introduction to statistical physics will still be a highly desirable prerequisite for a course based on this textbook.

Teaching an introductory course in soft condensed matter has been difficult largely because of the lack of a good textbook. Jones's book fills the need admirably. It should make teaching much easier, which in turn should result in many more soft condensed matter courses being offered. That will surely help the field to grow even more.

David A. WeitzHarvard University
Cambridge, Massachusetts

The Science of Soccer

John Wesson IOP, Philadelphia, 2002. \$24.00 paper (199 pp.). ISBN 0-7503-0813-3

The Science of Soccer is a pleasant addition to a long line of sports-related books by English authors, each of whom wants to explain the sound physical reasons why things happen in a particular game. Many of these books are about golf, such as Alistair Cochran and John Stobbs's The Search for the Perfect Swing (Lippincott, 1968). They encompass, however, a wide range of other sports. The present book compares in spirit with Geoffrey Dyson's The Mechanics of Athletics (U. of London Press, 1973), but is at once more rigorous and less complete than that book. Similar efforts are popular in the US. Most of those are considerably longer than their English cousins; one thinks, for example, of James Counsilman's The Science of Swimming (Prentice-Hall, 1968), or Robert Adair's The Physics of Baseball (3rd ed., Perennial, 2002).

Wesson's efforts are not as ambitious as those last two are, at least in the parts in which he discusses the physics involved in the game. He devotes only the first third of the book to that discussion, and there he mostly concentrates on the behavior of the ball. He briefly considers the mechanics of the body during the kick, but that subject is better treated in other books—in Dyson's, for example. For the rest of the book, Wesson reaches into territory that few such books have explored before, including some thoughts on rudimentary game theory, on strategy, and on the economics of the game today. Those parts make interesting reading.

It is sometimes a little hard to tell what audience Wesson writes for. In discussing the physics in the first third of the book, he gives a mostly qualitative account. Except for an extraordinary incorrect paragraph on why balls bounce, fortunately preceded by a correct one, the discussions are insightful and offer the general reader a feeling for the mechanics of the flight of the ball. The treatment suggests that Wesson has made some calculations to buttress his statements, but the suggestions are not

obtrusive and do not dominate the discussion. In the second section, in which he branches into other subjects, the arguments are still more or less qualitative, but the presence of model calculations underlying the discussion is more evident. He devises, for instance, a sort of handicapping algorithm, based on team records, that he uses to predict probable game outcomes. In the tradition of good science, he then tests his algorithm against actual play—with good results. In contrast to that excursion, most of the calculations in the section are based on the statistical probabilities of random events. Perhaps the most interesting is a model of the two-dimensional position that the ball traverses across the field during play. The model amounts to a sort of Brownian motion calculation. It's clever, but the notion that the ball's motion in a game is simply random might provoke, if not offend, the average fan.

In the last chapter, Wesson summarizes the models he has used for the calculations in the earlier sections. As one would expect from someone with his credentials (he has played competitive soccer and holds a PhD in physics), the models are free of mathematical foolishness. Unfortunately, the commentary explaining them is often opaque. The mathematics in the chapter ranges from the sort of Galilean trajectory analysis common to most introductory physics courses, through a quick introduction to Newtonian mechanics using calculus, to a curious mention of the Fokker-Planck equation. The large spread in levels of sophistication makes much of the chapter mysterious in the eyes of a general audience, for whom he seems to be writing the first part of the book.

I have used books like *The Science* of *Soccer* in reading lists for courses about science and sports for a general audience. For the most part Wesson's book is a rather nice one, but I would not be tempted to include it in such a list because the last chapter would intimidate that audience.

John D. McCullen University of Arizona Tucson

NEW BOOKS

Acoustics

Acoustical Imaging. Vol. 26. R. Gr. Maev, ed. Proc. symp., Windsor, Ontario, Canada, Sept. 2001. Kluwer Academic/Plenum, New York, 2002. \$195.00 (516 pp.). ISBN 0-306-47340-2

Astronomy and Astrophysics

2001: A Spacetime Odyssey. M. J. Duff, J. T. Liu, eds. Proc. conf., Ann Arbor, Mich., May 2001. World Scientific, River Edge, N.J., 2002. \$78.00 (228 pp.). ISBN 981-02-4806-7

Cosmic Masers: From Protostars to Blackholes. V. Migenes, M. J. Reid, eds. International Astronomical Union Symposium 206. Proc. symp., Rio de Janeiro, Brazil, Mar. 2001. International Astronomical Union, Paris, France, and Astronomical Society of the Pacific, San Francisco, 2002. \$95.00 (531 pp.). ISBN 1-58381-112-5

Disks of Galaxies: Kinematics, Dynamics and Perturbations. E. Athanassoula, A. Bosma, R. Mujica, eds. Astronomical Society of the Pacific Conference Series 275. Proc. conf., Puebla, Mexico, Nov. 2001. Astronomical Society of the Pacific, San Francisco, 2002. \$57.00 (467 pp.). ISBN 1-58381-117-6

Exotic Stars as Challenges to Evolution: IAU Colloquium 187. C. A. Tout, W. Van Hamme, eds. Astronomical Society of the Pacific Conference Series 279. Proc. colloq., Miami, Fla., Mar. 2002. Astronomical Society of the Pacific, San Francisco, 2002. \$57.00 (400 pp.). ISBN 1-58381-122-2

Modes of Star Formation and the Origin of Field Populations. E. K. Grebel, W. Brandner, eds. Astronomical Society of the Pacific Conference Series 285. Proc. wksp., Heidelberg, Germany, Oct. 2000. Astronomical Society of the Pacific, San Francisco, 2002. \$57.00 (457 pp.). ISBN 1-58381-128-1

New Quests in Stellar Astrophysics: The Link Between Stars and Cosmology. M. Chávez, A. Bressan, A. Buzzoni, D. Mayya, eds. Astrophysics and Space Science Library 274. Proc. conf., Puerto Vallarta, Mexico, Mar. 2001. Kluwer Academic, Norwell, Mass., 2002. \$124.00 (311 pp.). ISBN 1-4020-0644-6

Seeing Through the Dust: The Detection of H I and the Exploration of the ISM in Galaxies. A. R. Taylor, T. L. Landecker, A. G. Willis, eds. Astronomical Society of the Pacific Conference Series 276. Proc. conf., Penticton, British Columbia, Canada, Oct. 2001. Astronomical Society of the Pacific, San Francisco, 2002. \$57.00 (478 pp.). ISBN 1-58381-118-4

Atomic and Molecular Physics

Introduction to the Physics of Highly Charged Ions. H. F. Beyer, V. P. Shevelko. Series in Atomic and Molecular Physics. IOP, Philadelphia, 2003. \$90.00 (361 pp.). ISBN 0-7503-0481-2

Physics of Atoms and Ions. B. M. Smirnov. *Graduate Texts in Contemporary Physics*. Springer-Verlag, New York, 2003. \$89.95 (442 pp.). ISBN 0-387-95550-X

Biophysics and Medical Physics

Biophysical Chemistry: Membranes and Proteins. R. H. Templer, R. Leatherbarrow, eds. Proc. conf., London, UK, Sept. 2001. Royal Society of Chemistry, Cambridge, UK, 2002. \$179.00 (280 pp.). ISBN 0-85404-851-0

Group 13 Chemistry II: Biological Aspects of Aluminum. H. W. Roesky, D. A. Atwood, eds. *Structure and Bonding 104*. Springer-Verlag, New York, 2002. \$139.00 (200 pp.). ISBN 3-540-43807-6

Chemical Physics

Chemistry of Nanomolecular Systems: Towards the Realization of Nanomolecular Devices. T. Nakamura, T. Matsumoto, H. Tada, K.-I. Sugiura, eds. Springer Series in Chemical Physics 70. Springer-Verlag, New York, 2003. \$69.95 (197 pp.). ISBN 3-540-44135-2

Heterophase Network Polymers: Synthesis, Characterization and Proper-

ties. B. A. Rozenberg, G. M. Sigalov, eds. (translated from Russian by M. Z. Aldoshina, Y. B. Scheck). Taylor & Francis, New York, 2002. \$96.00 (313 pp.). ISBN 0-415-28417-1

Liquid Dynamics: Experiment, Simulation, and Theory. J. T. Fourkas, ed. *ACS Symposium Series 820*. American Chemical Society, Washington, DC, 2002. \$135.00 (324 pp.). ISBN 0-8412-3762-X

Low-Lying Potential Energy Surfaces. M. R. Hoffmann, K. G. Dyall, eds. *ACS Symposium Series 828*. American Chemical Society, Washington, DC, 2002. \$150.00 (473 pp.). ISBN 0-8412-3792-1

soнo **Scientists**

GET THE PICTURE Quickly with IDL

"Not only does IDL reduce and analyze data very quickly, it is also an extremely versatile software package."

Dennis Wang

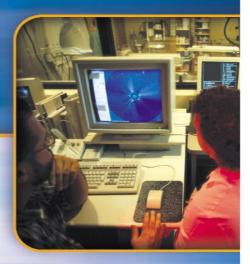
Solar Physics Branch, Naval Research Lab

Software scientist Dennis Wang and his colleagues at the Solar Physics Branch of the Naval Research Lab are making new discoveries about the polarization and electron density of the Sun's corona with the help of IDL.

Wang and his team download data generated by the Large Angle and Spectrometric Coronagraph (LASCO) instrument aboard the Solar and Heliospheric Observatory (SOHO) spacecraft, and use IDL to process, visualize, and develop specific applications for sharing their findings.

Getting the Details Right the First Time

"IDL really saves us time," said Wang.
"All of the details of getting plots, graphs, images, and movies would be more painful-and less flexible-using another package. The interactive nature of IDL programming helps us get the details right the first time."





To read the full SOHO story and learn how IDL can help you and your organization, visit us at www.RSInc.com/PT

www.RSInc.com/PT • 303.786.9900



Relativistic Effects in Heavy-Element Chemistry and Physics. B. A. Hess, ed. Wiley Series in Theoretical Chemistry. Wiley, Hoboken, N.J., 2003. \$105.00 (307 pp.). ISBN 0-470-84138-9

Solid-Liquid Interfaces: Macroscopic Phenomena—Microscopic Understanding. K. Wandelt, S. Thurgate, eds. *Topics in Applied Physics 85*. Springer-Verlag, New York, 2003. \$149.00 (444 pp.). ISBN 3-540-42583-7

Speciality Chemicals in Mineral Processing. D. R. Skuse, ed. Proc. mtg., Bath, UK, June 2001. Royal Society of Chemistry, Cambridge, UK, 2002. \$129.00 (143 pp.). ISBN 0-85404-831-6

Computers and Computational Physics

Adaptive Multiscale Schemes for Conservation Laws. S. Müller. Lecture Notes in Computational Science and Engineering 27. Springer-Verlag, New York, 2003. \$59.95 paper (181 pp.). ISBN 3-540-44325-8

Advanced Mathematics and Mechanics Applications Using MATLAB®. 3rd edition. H. B. Wilson, L. H. Turcotte, D. Halpern. Chapman & Hall/CRC, Boca Raton, Fla., 2003 [1997]. \$89.95 (678 pp.). ISBN 1-58488-262-X

Advances in Artificial Intelligence—IBERAMIA 2002. F. J. Garijo, J. C. Riquelme, M. Toro, eds. *Lecture Notes in Artificial Intelligence 2527*. Proc. conf., Seville, Spain, Nov. 2002. Springer-Verlag, New York, 2002. \$109.00 paper (955 pp.). ISBN 3-540-00131-X

Advances in Plan-Based Control of Robotic Agents. M. Beetz, J. Hertzberg, M. Ghallab, M. E. Pollack, eds. *Lecture Notes in Artificial Intelligence 2466*. Proc. sem., Dagstuhl Castle, Germany, Oct. 2001. Springer-Verlag, New York, 2002. \$52.00 paper (289 pp.). ISBN 3-540-00168-9

Algorithmic Learning Theory. N. Cesa-Bianchi, M. Numao, R. Reischuk, eds. Lecture Notes in Artificial Intelligence 2533. Proc. conf., Lübeck, Germany, Nov. 2002. Springer-Verlag, New York, 2002. \$69.00 paper (413 pp.). ISBN 3-540-00170-0

Computer Algebra Recipes for Classical Mechanics. R. H. Enns, G. C. McGuire. Birkhäuser, Boston, 2003. \$54.95 paper (264 pp.). ISBN 0-8176-4291-9, CD-ROM

Design Sensitivity Analysis: Computational Issues of Sensitivity Equation Methods. L. G. Stanley, D. L. Stewart. Frontiers in Applied Mathematics. Society for Industrial and Applied Mathematics, Philadelphia, 2002. \$65.00 (139 pp.). ISBN 0-89871-524-5

Discovery Science. S. Lange, K. Satoh, C. H. Smith, eds. *Lecture Notes in Computer Science 2534*. Proc. conf., Lübeck, Germany, Nov. 2002. Springer-Verlag, New York, 2002. \$73.00 paper (464 pp.). ISBN 3-540-00188-3

Fuzzy Logic and Probability Applications: Bridging the Gap. T. J. Ross, J. M.

Booker, W. J. Parkinson, eds. ASA-SIAM Series on Statistics and Applied Probability. American Statistical Association, Alexandria, Va., and Society for Industrial and Applied Mathematics, Philadelphia, 2002. \$114.00 (409 pp.). ISBN 0-89871-525-3

Condensed Matter Physics

Disordered Materials: An Introduction. P. M. Ossi. *Advanced Texts in Physics*. Springer-Verlag, New York, 2003. \$64.95 (288 pp.). ISBN 3-540-41328-6

Electronic Structure of Alloys, Surfaces and Clusters. A. Mookerjee, D. D. Sarma, eds. *Advances in Condensed Matter Science 4*. Taylor & Francis, New York, 2003. \$96.00 (368 pp.). ISBN 0-415-27249-1

Introduction to Quantum Hall Effect. K. N. Shrivastava. Nova Science, Hauppauge, N.Y., 2002. \$69.00 (293 pp.). ISBN 1-59033-419-1

Liquid Crystals: Fundamentals. S. Singh. World Scientific, River Edge, N.J., 2002. \$98.00 (531 pp.). ISBN 981-02-4250-6

Magnetism in the Solid State: An Introduction. P. Mohn. Springer Series in Solid-State Sciences 134. Springer-Verlag, New York, 2003. \$79.95 (215 pp.). ISBN 3-540-43183-7

Nanostructured Magnetic Materials and Their Applications. D. Shi, B. Aktas, L. Pust, F. Mikailov, eds. *Lecture Notes in Physics* 593. Springer-Verlag, New York, 2002. \$79.95 (289 pp.). ISBN 3-540-44102-6

Theoretical Surface Science: A Microscopic Perspective. A. Groß. Advanced Texts in Physics. Springer-Verlag, New York, 2003. \$59.95 (275 pp.). ISBN 3-540-43903-X

Cosmology and Relativity

Black Holes: A Bibliography with Indexes. L. A. Jameson, ed. Nova Science, Hauppauge, N.Y., 2002. \$89.00 (127 pp.). ISBN 1-59033-287-3

Cosmological Crossroads: An Advanced Course in Mathematical, Physical and String Cosmology. S. Cotsakis, E. Papantonopoulos, eds. Lecture Notes in Physics 592. Proc. sch., Samos Island, Greece, Sept. 2001. Springer-Verlag, New York, 2002. \$86.00 (477 pp.). ISBN 3-540-43778-9

Device Physics

ICNS-4: Fourth International Conference on Nitride Semiconductors. Parts A and B. F. A. Ponce, A. Bell, eds. Proc. conf., Denver, Colo., Apr. 2001. Wiley, Hoboken, N.J., 2002. \$265.00 set (1556 pp. set). ISBN 3-527-40347-7

Low Dielectric Constant Materials for IC Applications. P. S. Ho, J. Leu, W. W. Lee, eds. Springer Series in Advanced Microelectronics 9. Springer-Verlag, New York, 2003. \$109.00 (309 pp.). ISBN 3-540-67819-0

Low-Dimensional Nitride Semiconductors. B. Gil, ed. Series on Semicon-

ductor Science and Technology 9. Oxford U. Press, New York, 2002. \$125.00 (467 pp.). ISBN 0-19-850974-X

Modeling MEMS and NEMS. J. A. Pelesko, D. H. Bernstein. Chapman & Hall/CRC, Boca Raton, Fla., 2003. \$69.95 (357 pp.). ISBN 1-58488-306-5

Progress in Ultra-Short Electromagnetic Pulse Technology: A New Frontier in Physics. J.-F. Eloy. Taylor & Francis, New York, 2002. \$140.00 (253 pp.). ISBN 1-56032-964-5

Energy and Environment

Annual Review of Energy and the Environment. Vol. 27. R. H. Socolow, D. Anderson, J. Harte, eds. Annual Reviews, Palo Alto, Calif., 2002. \$82.00 (472 pp.). ISBN 0-8243-2327-0

Environmental and Health Impact of Solid Waste Management Activities. R. E. Hester, R. M. Harrison, eds. Issues in Environmental Science and Technology 18. Royal Society of Chemistry, Cambridge, UK, 2002. \$64.95 paper (214 pp.). ISBN 0-85404-285-7

Fluids

Analytical and Numerical Methods for Wave Propagation in Fluid Media. K. Murawski. Series on Stability, Vibration and Control of Systems, Series A, 7. World Scientific, River Edge, N.J., 2002. \$56.00 (239 pp.). ISBN 981-238-155-4

Error Estimation and Adaptive Discretization Methods in Computational Fluid Dynamics. T. J. Barth, H. Deconinck, eds. Lecture Notes in Computational Science and Engineering 25. Springer-Verlag, New York, 2003. \$79.95 (344 pp.). ISBN 3-540-43758-4

Fundamental Mechanics of Fluids. 3rd edition. I. G. Currie. Mechanical Engineering: A Series of Textbooks and Reference Books 154. Marcel Dekker, New York, 2003 [1993]. \$175.00 (525 pp.). ISBN 0-8247-0886-5

Numerical Flow Simulation III: CNRS-DFG Collaborative Research Programme, Results 2000-2002. E. H. Hirschel, ed. Notes on Numerical Fluid Mechanics and Multidisciplinary Design 82. Springer-Verlag, New York, 2003. \$199.00 (285 pp.). ISBN 3-540-44130-1

Perspectives in Flow Control and Optimization. M. D. Gunzburger. Advances in Design and Control. Society for Industrial and Applied Mathematics, Philadelphia, 2003. \$70.00 (261 pp.). ISBN 0-89871-527-X

Geophysics

Applications of Synchrotron Radiation in Low-Temperature Geochemistry and Environmental Sciences. P. A. Fenter, M. L. Rivers, N. C. Sturchio, S. R. Sutton, eds. Reviews in Mineralogy and Geochemistry 49. Geochemical Society, St. Louis, Mo., and Mineralogical Society of America, Washington, DC, 2002. \$36.00 paper (579 pp.). ISBN 0-939950-54-5

Beryllium: Mineralogy, Petrology, and Geochemistry. E. S. Grew, ed. Reviews in Mineralogy and Geochemistry 50. Geochemical Society, St. Louis, Mo., and Mineralogical Society of America, Washington, DC, 2002. \$36.00 paper (691 pp.). ISBN 0-939950-62-6

The Central Atlantic Magmatic Province: Insights from Fragments of Pangea. W. Hames, J. G. McHone, P. Renne, C. Ruppel, eds. *Geophysical Monograph* 136. American Geophysical Union, Washington, DC, 2003. \$69.00 (267 pp.). ISBN 0-87590-995-7

Earth's Core: Dynamics, Structure, Rotation. V. Dehant, K. C. Creager, S. Karato, S. Zatman, eds. *Geodynamics Series 31*. American Geophysical Union, Washington, DC, 2003. \$70.00 (277 pp.). ISBN 0-87590-533-1

Earth's Low-Latitude Boundary Layer. P. T. Newell, T. Onsager, eds. *Geophysical Monograph 133*. American Geophysical Union, Washington, DC, 2003. \$85.00 (384 pp.). ISBN 0-87590-992-2

Plasticity and Geomechanics. R. O. Davis, A. P. S. Selvadurai. Cambridge U. Press, New York, 2002. \$80.00 (287 pp.). ISBN 0-521-81830-3

History and Philosophy

100 Years Werner Heisenberg: Works and Impact. D. Papenfuß, D. Lüst, W. P. Schleich, eds. Wiley, Hoboken, N.J., 2002. \$120.00 (299 pp.). ISBN 3-527-40392-2 **Bell Labs: Life in the Crown Jewel.** N. Gehani. Silicon Press, Summit, N.J., 2003. \$29.95 (258 pp.). ISBN 0-929306-27-9

The History of the Soviet Atomic Industry. A. Kruglov (translated from Russian by A. Lokhov). Taylor & Francis, New York, 2002. \$95.00 (282 pp.). ISBN 0-415-26970-9

Kepler's Conjecture: How Some of the Greatest Minds in History Helped Solve One of the Oldest Math Problems in the World. G. G. Szpiro. Wiley, Hoboken, N.J., 2003. \$24.95 (296 pp.). ISBN 0-471-08601-0

Microchip: An Idea, Its Genesis, and the Revolution It Created. J. Zygmont. Perseus, Cambridge, Mass., 2003. \$25.00 (245 pp.). ISBN 0-7382-0561-3

Minding the Heavens: The Story of Our Discovery of the Milky Way. L. Belkora. IOP, Philadelphia, 2003. \$19.99 paper (406 pp.). ISBN 0-7503-0730-7

Newton: The Making of Genius. P. Fara. Columbia U. Press, New York, 2002. \$27.95 (347 pp.). ISBN 0-231-12806-1

On a Grander Scale: The Outstanding Life of Sir Christopher Wren. L. Jardine. HarperCollins, New York, 2002. \$34.95 (600 pp.). ISBN 0-06-019974-1

On the Shoulders of Giants: The Great Works of Physics and Astronomy. S. Hawking, ed. Running Press, Philadelphia, 2002. \$29.95 (1264 pp.). ISBN 0-7624-1348-4

The Philosophy of Scientific Experimentation. H. Radder, ed. U. of Pittsburgh Press, Pittsburgh, Pa., 2003. \$29.95 paper (311 pp.). ISBN 0-8229-5795-7

Physicists of Ireland: Passion and Precision. M. McCartney, A. Whitaker, eds. IOP, Philadelphia, 2003. \$58.00 (298 pp.). ISBN 0-7503-0866-4

Statistical Physics and Thermodynamics

Statistical Field Theories. A. Cappelli, G. Mussardo, eds. NATO Science Series, Series II: Mathematics, Physics and Chemistry 73. Proc. wksp., Como Italy, June 2001. Kluwer Academic, Norwell, Mass., 2002. \$127.00 (351 pp.). ISBN 1-4020-0760-4

Thermodynamics and Statistical Mechanics: Equilibrium by Entropy Maximisation. P. Attard. Academic Press, San Diego, Calif., 2002. \$99.95 (424 pp.). ISBN 0-12-066321-X

Theory and Mathematical Methods

Classical and Celestial Mechanics: The Recife Lectures. H. Cabral, F. Diacu, eds. Princeton U. Press, Princeton, N.J., 2002. \$49.50 (385 pp.). ISBN 0-691-05022-8

The Finite Element Method for Elliptic Problems. P. G. Ciarlet. Classics in Applied Mathematics 40. Society for Industrial and Applied Mathematics,



American Physical Society Insurance Trust

The American Physical Society Insurance Trust offers active members of AIP member societies the opportunity to obtain high quality insurance coverage at affordable group rates. Choose from a broad array of Group Insurance Plans. Spouse and dependent child coverage is also available. For more information visit our Web site at www.hvfinc.com.

Complete and Mail to:

Herbert V. Friedman, Inc., 119 North Park Avenue, Rockville Centre, NY 11570 or call 800-272-1637

| Please send me a brochure with complete information (including eligibility, benefit provisions, rates, exclusions & limitations and termination provisions) for the following plans: | | |
|--|----------------|--------------|
| □ 10 Year Level Term Life | NAME | BIRTH DATE |
| ☐ Accidental Death & Dismemberment | | |
| ☐ Disability Income | ADDRESS | |
| ☐ Hospital Indemnity | | |
| Underwritten by: New York Life Insurance Company 51 Madison Avenue, New York, NY 10010 | CITY | STATE ZIP |
| | E-MAIL ADDRESS | PHONE NUMBER |

Philadelphia, 2002. $$55.00\ paper$ (530 pp.). ISBN 0-89871-514-8

Grand Unified Theorem: Representation of the Unified Field Theory or the Theory of Everything. G. A. Oyibo. Nova Science, Hauppauge, N.Y., 2001. \$89.00 (275 pp.). ISBN 1-59033-134-6

Group Representation Theory for Physicists. 2nd edition. J.-Q. Chen, J. Ping, F. Wang. World Scientific, River Edge, N.J., 2002 [1985]. \$86.00 (574 pp.). ISBN 981-238-065-5

Introduction to Quantum Fields on a Lattice: A Robust Mate. J. Smit. Cambridge Lecture Notes in Physics 15. Cambridge U. Press, New York, 2002. \$30.00 paper (271 pp.). ISBN 0-521-89051-9

Introduction to Symmetry Analysis. B. J. Cantwell. Cambridge Texts in Applied Mathematics. Cambridge U. Press, New York, 2002. \$130.00, \$50.00 paper (612 pp.). ISBN 0-521-77183-8, ISBN 0-521-77740-2 paper, CD-ROM

Mathematical Optimization and Economic Theory. M. D. Intriligator. Classics in Applied Mathematics 39. Society for Industrial and Applied Mathematics, Philadelphia, 2002. \$49.00 paper (508 pp.). ISBN 0-89871-511-3

Ordinary Differential Equations. 2nd edition. P. Hartman. Classics in Applied Mathematics 38. Society for Industrial and Applied Mathematics, Philadelphia, 2002 [1982]. \$59.00 paper (612 pp.). ISBN 0-89871-510-5

Quantum Field Theory: A Self-Con-

tained Course. Vol. 2. D. Atkinson, P. W. Johnson. Rinton Press, Princeton, N.J., 2002. \$48.00 (201 pp.). ISBN 1-58949-024-X

Universal Fluctuations: The Phenomenology of Hadronic Matter. R. Botet, M. Płoszajczak. World Scientific Lecture Notes in Physics 65. World Scientific, River Edge, N.J., 2002. \$68.00, \$36.00 paper (369 pp.). ISBN 981-02-4898-9, ISBN 981-02-4923-3 paper

Undergraduate Texts and **Education**

Atmospheric Pollution: History, Science, and Regulation. M. Z. Jacobson. Cambridge U. Press, New York, 2002. \$110.00, \$50.00 paper (399 pp.). ISBN 0-521-81171-6, ISBN 0-521-01044-6 paper

Biophysics: An Introduction. R. M. J. Cotterill. Wiley, Hoboken, N.J., 2002. \$115.00, \$39.95 paper (395 pp.). ISBN 0-471-48537-3, ISBN 0-471-48538-1 paper

Classical Mechanics: Systems of Particles and Hamiltonian Dynamics. W. Greiner (translated from German by W. Greiner). Classical Theoretical Physics. Springer-Verlag, New York, 2003. \$69.95 paper (542 pp.). ISBN 0-387-95128-8

Green Chemistry: An Introductory Text. M. Lancaster. RSC Paperbacks. Royal Society of Chemistry, Cambridge, UK, 2002. \$44.95 paper (310 pp.). ISBN 0-85404-620-8

Linear Time-Invariant Systems. M. Schetzen. IEEE Press, Piscataway, N.J.,

and Wiley, Hoboken, N.J., 2003. \$69.95 (372 pp.). ISBN 0-471-23145-2

Miscellaneous

2003 Graduate Programs in Physics, Astronomy, and Related Fields. AIP, Melville, N.Y., 2002. \$58.00 paper (888 pp.). ISBN 0-7354-0082-2

Applied Quantitative Finance: Theory and Computational Tools. W. Härdle, T. Kleinow, G. Stahl. Springer-Verlag, New York, 2002. \$69.95 paper (401 pp.). ISBN 3-540-43460-7

Bad Medicine: Misconceptions and Misuses Revealed, from Distance Healing to Vitamin O. C. Wanjek. Wiley, Hoboken, N.J., 2003. \$15.95 paper (280 pp.). ISBN 0-471-43499-X

Credit Scoring and Its Applications. L. C. Thomas, D. B. Edelman, J. N. Crook. SIAM Monographs on Mathematical Modeling and Computation. Society for Industrial and Applied Mathematics, Phildelphia, 2002. \$75.00 paper (248 pp.). ISBN 0-89871-483-4, CD-ROM

Recent Advances in Intrusion Detection. A. Wespi, G. Vigna, L, Deri, eds. Lecture Notes in Computer Science 2516. Proc. symp., Zürich, Switzerland, Oct. 2002. Springer-Verlag, New York, 2002. \$56.00 paper (326 pp.). ISBN 3-540-00020-8

Wireless Web Development. 2nd edition. R. Rischpater. Arpess, New York, 2002 [2000]. \$39.95 paper (382 pp.). ISBN 1-59059-028-7

CRYOGENIC WAFER PROBE STATIONS DC to 60 GHz 3.2 K to 450 K Imaging with Microscopes & Cameras Two to Six Probe Stations Janis Research Company 2 Jewel Drive Wilmington, MA 01887 USA TEL 1 (978) 657-8750 FAX 1 (978) 658-0349 janis@janis.com