

The following recently published books, relevant to materials science, have come to *MRS Bulletin's* attention. Some of the books listed here may be reviewed in future issues of *MRS Bulletin*.

Books

58th Conference on Glass Problems, Vol. 19, Issue 1, J. Kieffer, ed. The American Ceramic Society, Westerville, OH, 1998. Paper, 180 pp., \$60.00, ISSN 0196-6219.

A Guide to Materials Characterization and Chemical Analysis, 2d ed., J.P. Sibilio, ed. John Wiley & Sons, New York, 1997. Cloth, 388 pp., \$69.95, ISBN 0-471-18633-3.

A Practical Guide for the Preparation of Specimens for X-Ray Fluorescence and X-Ray Diffraction Analysis, V.E. Buhrke, R. Jenkins, and D.K. Smith, eds. John Wiley & Sons, New York, 1997. Cloth, 333 pp., \$79.95, ISBN 0-471-19458-1.

Advances in Chemical Physics, Vol. 103, I. Prigogine and S.A. Rice, eds. John Wiley & Sons, New York, 1998. Cloth, 412 pp., \$125.00, ISBN 0-471-24752-9.

Advances in X-Ray Analysis, Vol. 39, J.V. Gilfrich, I.C. Noyan, R. Jenkins, T.C. Huang, R.L. Snyder, D.K. Smith, M.A. Zaitz, and P.K. Predecki, eds. Plenum Press, New York, 1995. Cloth, 908 pp., \$175.00, ISBN 0-306-45803-9.

An Introduction to Computational Physics, T. Pang. Cambridge University Press, New York, 1997. Paper, 374 pp., \$39.95, ISBN 0-521-48592-4, cloth, \$85.00.

Ceramic Microstructures: Control at the Atomic Level, A.P. Tomsia and A.M. Glaeser, eds. Plenum Press, New York, 1996. Cloth, 854 pp., \$195.00, ISBN 0-306-45817-9.

Ceramic Transactions Series, Vols. 81, 82, 84, 85, 86, 87, 88, and 89. The American Ceramic Society, Westerville, OH, 1998. *Vol. 81, Sol-Gel Processing of Advanced Materials*, L.C. Klein, E.J.A. Pope, S. Sakka, and J.L. Woolfrey, eds. Cloth, \$95.00, ISBN 1-57498-042-4. *Vol. 82, Advances in Fusion & Processing of Glass II*, A.G. Clare and L.E. Jones, eds. Cloth, \$111.00, ISBN 1-57498-045-9. *Vol. 84, Impact of Recent Advances in Processing of Ceramic Superconductors*, W. Wong-Ng, U. Balachandran, and A.S. Bhalla, eds. Cloth, \$95.00, ISBN 1-57498-031-9. *Vol. 85, Innovative Processing and Synthesis of Ceramics, Glasses, and Composites*, N.P. Bansal, K.V. Logan, and J.P. Singh, eds. Cloth, \$95.00, ISBN 1-57498-030-0. *Vol. 86, Integrated Thin Films and Applications*, R.K. Pandey, D.E. Witter, and U. Varshney, eds. Cloth, \$95.00, ISBN 1-57498-032-7. *Vol. 87, Environmental Issues and Waste Management Technologies in the Ceramic and Nuclear Industries III*, D.K. Peeler and J.C. Marra, eds. Cloth, \$95.00, ISBN 1-57498-035-1. *Vol. 88, Advances in Dielectric Ceramic Materials*, K.M. Nair and A.S. Bhalla, eds. Cloth, \$95.00, ISBN 1-57498-033-5. *Vol. 89, Nondestructive Evaluation of Ceramics*, C.H. Shilling and J.N. Gray, eds. Cloth, \$95.00, ISBN 1-57498-037-8.

Chemistry of Advanced Materials: An Overview, Leonard V. Interrante and Mark J.

Hampden-Smith, eds. John Wiley & Sons, New York, 1998. Cloth, 580 pp., \$89.95, ISBN 0-471-18590-6.

Chemistry, Structure, and Bonding of Zintl Phases and Ions, S.M. Kauzlarich, ed. John Wiley & Sons, New York, 1997. Cloth, 306 pp., \$125.00, ISBN 0-471-18619-8.

Crystal Fire: The Birth of the Information Age, M. Riordan and L. Hoddeson. W.W. Norton & Company, New York, 1997. Cloth, 352 pp., \$27.50, ISBN 0-393-04124-7.

Dendritic Molecules: Concepts, Syntheses, Perspectives, G.R. Newkome, C.N. Moorefield, and F. Vögtle. John Wiley & Sons, New York, 1997. Cloth, 261 pp., \$140.00, ISBN 3-527-29325-6.

Dynamic Fracture Mechanics, L.B. Freund. Cambridge University Press, New York, 1998. Paper, 563 pp., \$37.95, ISBN 0-521-62922-5.

Electronic Genie: The Tangled History of Silicon, F. Seitz and N.G. Einspruch. University of Illinois Press, Urbana and Chicago, 1998. Cloth, 281 pp., \$34.95, ISBN 0-252-02383-8.

Fibrous Materials, K.K. Chawla. Cambridge University Press, New York, 1998. Cloth, 293 pp., \$85.00, ISBN 0-521-57079-4.

Fractals, Scaling and Growth Far from Equilibrium, P. Meakin. Cambridge University Press, New York, 1997. Cloth, 674 pp., \$125.00, ISBN 0-521-45253-8.

Functional and Smart Materials: Structural Evolution and Structure Analysis, Z.L. Wang and Z.C. Kang. Plenum Press, New York, 1998. Cloth, 514 pp., \$125.00, ISBN 0-306-45651-6.

Fundamentals of Polymer Engineering, A. Ram. Plenum Press, New York, 1997. Cloth, 237 pp., \$49.50, ISBN 0-306-45726-1.

Handbook of Surface and Interface Analysis: Methods for Problem Solving, J.C. Riviere and S. Myhra, eds. Marcel Dekker, New York, 1998. Cloth, 968 pp., \$225.00, ISBN 0-8247-0080-5.

Handbook of Vacuum Science and Technology, D.M. Hoffman, B. Singh, and J.H. Thomas, III, eds. Academic Press, San Diego, 1997. Cloth, 835 pp., \$120.00, ISBN 0-12-352065-7.

High Cycle Fatigue of Structural Materials, W.O. Soboyejo and T.S. Srivatsan, eds. The Minerals, Metals & Materials Society, Warrendale, PA, 1997. Cloth, 602 pp., \$100.00, ISBN 0-87339-382-1.

Impact on Composite Structures, S. Abrate. Cambridge University Press, New York, 1998. Cloth, 289 pp., \$64.95, ISBN 0-521-47389-6.

Interfacial Aspects of Multicomponent Polymer Materials, D. J. Lohse, T.P. Russell, and L.H. Sperling, eds. Plenum Press, New York, 1997. Cloth, 303 pp., \$95.00, ISBN 0-306-45718-0.

Interfacial Science, M.W. Roberts, ed. Blackwell Science, United Kingdom, 1997. Cloth, 302 pp., \$95.00, ISBN 0-632-04219-2.

Materials and Process Characterization of Ion Implantation, M. I. Current and C.B. Yarling, eds. Ion Beam Press, Austin, TX., 1997. Paper, 488 pp., \$120.00, ISBN 1-889381-03-9.

Materials Crystal Chemistry, R.C. Buchanan and T. Park. Marcel Dekker, New York, 1997. Cloth, 462 pp., \$175.00, ISBN 0-8247-9798-1.

Materials Science in Microelectronics. Vol. 1, The Relationships Between Thin Film Processing and Structure; Vol. 2, The Effects of Structure on Properties in Thin Films, E.S. Machlin. Giro Press, Croton-on-Hudson, NY, 1995. Cloth, 228 pp., \$66.00, ISBN 1-878857-07-X.

Materials Synthesis and Characterization, D.L. Perry, ed. Plenum Press, New York, 1997. Cloth, 206 pp., \$95.00, ISBN 0-306-45377-0.

Mathematical Methods for Physics and Engineering: A Comprehensive Guide, K.F. Riley, M.P. Hobson, and S.J. Bence. Cambridge University Press, New York, 1997. Cloth, \$110.00, ISBN 0-521-55506-X; paper, 1008 pp., \$49.95, ISBN 0-521-5529-9.

Mechanical Testing Methodology for Ceramic Design and Reliability, D.C. Cranmer and D.W. Richerson, eds. Marcel Dekker, New York, 1998. Cloth, 434 pp., \$175.00, ISBN 0-8247-9567-9.

The Metal Databook, A. Nayar. McGraw-Hill, New York, 1997. Cloth, 758 pp., \$89.95, ISBN 0-07-046088-4.

Microscopy of Semiconducting Materials 1997, A.G. Cullis and J.L. Hutchison, eds. Institute of Physics Publishing, Bristol, 1997. Cloth, 709 pp., \$400.00, ISBN 0-7503-0464-2.

Modern Magneto-optics and Magneto-optical Materials, A.K. Zvezdin and V.A. Kotov. Institute of Physics Publishing, Bristol, England, 1997. Cloth, 386 pp., \$, ISBN 0-7503-0362-X.

Molecular Electronics, J. Jortner and M. Ratner, eds. Blackwell Science, United Kingdom, 1997. Cloth, 485 pp., \$165.00, ISBN 0-632-04284-2.

Optoelectronic Properties of Semiconductors and Superlattices. Vol. 2, GaN and Related Materials, S.J. Pearton, ed. Gordon & Breach Publishers, The Netherlands, 1997. Cloth, \$145.00, ISBN 90-5699-516-2; paper, 538 pp., \$69.00, ISBN 90-5699-517-0.

Optoelectronic Properties of Semiconductors and Superlattices. Vol. 3, Antimonide-Related Strained-Layer Heterostructures, M.O. Manasreh, ed. Gordon & Breach Publishers, The Netherlands, 1997. Cloth, 510 pp., \$125.00, ISBN 90-5699-544-8.

Phase Equilibria, Phase Diagrams and Phase Transformations: A Thermodynamic Basis, M. Hillert. Cambridge University Press, New York, 1998. Cloth, \$110.00, ISBN 0-521-56270-8; paper, 538 pp., \$44.95, ISBN 0-521-56584-7.

The Physics of Low-Dimensional Semiconductors, J.H. Davies. Cambridge University Press, New York, 1997. Cloth, \$100.00, ISBN 0-521-48148-1; paper, 438 pp., \$44.95, ISBN 0-521-48491-X.

Plastics Technology Handbook, 3d ed., revised and expanded, M. Chanda and S.K. Roy. Marcel Dekker, New York, 1998. Cloth, 1195 pp., \$250.00, ISBN 0-8247-0066-X.

Polymer Modification, G. Swift, C.E. Carraher, Jr., and C.N. Bowman, eds. Plenum Press, New York, 1997. Cloth, 212 pp., \$95.00, ISBN 0-306-45714-8.

Polymeric Multicomponent Materials: An Introduction, L.H. Sperling. John Wiley & Sons, New York, 1997. Cloth, 397 pp., \$59.95, ISBN 0-471-04138-6.

Powder Metallurgy of Iron and Steel, R.M. German. John Wiley & Sons, 1998. Cloth, 496 pp., \$79.95, ISBN 0-471-15739-2.

Principles of Gas-Solid Flows, L-S. Fan and C. Zhu. Cambridge University Press, New York, 1997. Cloth, 557 pp., \$85.00, ISBN 0-521-58148-6.

Purity Control of Semiconductors by the Method of Capacitance Transient Spectroscopy, L.S. Berman. Electronic Integral Systems, St. Petersburg, Russia, 1995. Paper, 114 pp.

Quasicrystals, A Primer, 2d ed. C. Janot. Oxford

University Press, New York, 1995. Paper, 409 pp., \$95.00, ISBN 0-19-856551-8.

Quick Selection Guide to Chemical Protective Clothing, K. Forsberg and S.Z. Mansdorf. John Wiley & Sons, New York, 1998. Paper, 118 pp., \$25.95, ISBN 0-471-28797-0.

Resonant Ultrasound Spectroscopy, A. Migliori and J.L. Sarrao. John Wiley & Sons, 1997. Cloth, 201 pp., \$74.95, ISBN 0-471-12360-9.

The Scientist as Consultant: Building New Career Opportunities, C.J. Sindermann and T.K. Sawyer. Plenum Press, New York, 1997. Cloth, 341 pp., \$29.95, ISBN 0-306-45637-0.

Surface Diffusion: Atomistic and Collective Processes, Vol. B360, M.C. Tringides, ed. Plenum

Press, New York, 1997. Cloth, 724 pp., \$175.00, ISBN 0-306-45613-3.

Tracks to Innovation, Nuclear Tracks in Science and Technology, R.L. Fleischer. Springer-Verlag New York, New York, 1998. Cloth, 193 pp., \$49.95, ISBN 0-387-98342-2.

Uncooled Infrared Imaging Arrays and Systems, Vol. 47, Semiconductors and Semimetals, P.W. Kruse and D.D. Skatrud, eds. Academic Press, San Diego, 1997. Cloth, 341 pp., \$120.00, ISBN 0-12-752155-0. □

Advertisers in This Issue

	Page No.
American Institute of Physics	67
Chemat Technology, Inc.	9
CRI, Inc.	12
Denton Vacuum, Inc.	11
High Voltage Engineering	inside front cover
Huntington Laboratories	outside back cover
Nanomaterials Research Corp.	25
NZ Applied Technologies	7
Oxford Instruments	3
The Phosphor Technology Center	69
Solartron	inside back cover
Virginia Semiconductor Inc.	8
Voltaix, Inc.	42

For free information about the products and services offered in this issue, fill out and mail the Reader Service Card, or FAX it to 312-922-3165.

CLASSIFIED

Positions Available

**POSTDOCTORAL POSITION
Chemat Technology, Inc.**

A postdoctoral position is available in the R&D Department of Chemat Technology, Inc. Interested candidates should have a PhD degree in materials science, materials engineering or a related field. Chemat Technology, Inc. is a total sol-gel solution provider. Chemat has a dynamic and creative environment and a state-of-the-art facility for sol-gel research and development.

The candidates are responsible for generating new ideas to solve problems for customers, writing proposals and reports, and independently planning and conducting experiments. The creative candidates who like challenges are strongly invited. Applicants should submit a resume by mail to Human Resources-R, Chemat Technology, Inc., 19365 Business Center Drive, Suite 8, Northridge, CA 91324; fax to 818-727-9477; or e-mail to chemat@aol.com.

The future of the multibillion dollar display industry will be determined by research results in phosphor science and technology. You can see the opportunities at:

Over 100 Technical Papers selected by a distinguished International Program Committee ♦ Late-news Papers ♦ Poster Sessions ♦ Single-track Conference for Enhanced Interaction

**The Fourth International Conference
on the Science and Technology of
Display Phosphors
and
9th Int'l EL Workshop**

September 14-17 / The Riverhouse / Bend, Oregon

Topics

- Phosphor Growth & Synthesis
- Physics & Chemistry
- Screening
- Device Technologies
 - Electroluminescence
 - Field Emission & Cathode-ray Tubes
 - Photoluminescence

Speakers from the United States, Japan, Germany, Italy, the U.K., Switzerland, Finland, Canada, Ukraine, Korea, France, Belgium, Lithuania, and Russia

Many opportunities for discussion

Sponsored by:

- The Phosphor Technology
Center of Excellence*
- The U.S. Defense Advanced
Research Projects Agency*
- The Society for
Information Display*
- Oregon Center for Advanced
Technology Education*

For registration information contact:

Mark Goldfarb
Palisades Institute for Research Services
411 Lafayette St., 2nd Fl.
New York, NY 10003
Phone 212 460-8090 x202
Fax 212 460-5460

Circle No. 13 on Reader Service Card.