

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

Books

Aluminium Alloy Structures, Mazzolani. Chapman & Hall, UK, 1995. Hardcover, 704 pp, \$95.95, ISBN 0-419-17770-1.

The Aqueous Phase Behavior of Surfactants, R.G. Laughlin. Academic Press, London, 1994. Hardcover, 558 pp, \$70.00, ISBN 0-12-437745-9.

Basics of Laser Material Processing, A.G. Grigoryants. CRC Press, Boca Raton, Florida, 1994. 320 pp, \$95.00 U.S., \$114.00 outside U.S., ISBN 0-8493-7534-7.

BiCMOS Integrated Circuit Design, M.I. Elmasry, ed. IEEE Press, 1994. Hardcover, 560 pp, \$79.95, ISBN 0-7803-0430-6.

Biomaterials, Medical Devices and Tissue Engineering, An Integrated Approach, F.H. Silver. Chapman & Hall, London, 1994. Hardcover, 303 pp, \$89.95, ISBN 0-412-41260-8.

Boundary Elements in Nonlinear Fracture Mechanics, Topics in Engineering Series #21, V.M.A. Leitao. Computational Mechanics, Billerica, Massachusetts, 1994. Hardcover, 288 pp, \$119.00, ISBN 1-562-52259-0.

Carbon Fiber Composites, D.D.L. Chung. Butterworth-Heinemann, Newton, Massachusetts, 1994. Hardcover, 215 pp, \$89.95, ISBN 0-7506-9169-7.

Carbon Fibers, Formation, Structure, and Properties, L.H. Peebles Jr. CRC Press, Boca Raton, Florida, 1994. 224 pp, \$74.95 U.S., \$89.95 outside U.S., ISBN 0-8493-2450-5.

Case Studies in Superconducting Magnets, Design and Operational Issues, Y. Iwasa. Plenum Press, New York and London, 1994. Hardcover, 421 pp, \$59.50, ISBN 0-306-44881-5.

Ceramic and Carbon-Matrix Composites, Trefilov. Chapman & Hall, UK, 1995. Hardcover, 472 pp, \$189.95, ISBN 0-412-58510-3.

Ceramic Injection Molding, Mutsuddy. Chapman & Hall, UK, 1995. Hardcover, 384 pp, \$85.00, ISBN 0-412-53810-5.

Ceramic Matrix Composites, K.K. Chawla. Chapman & Hall, London, 1993. Hardcover, 423 pp, \$79.95, ISBN 0412-36740-8.

Ceramic Microstructures, Lee. Chapman & Hall, UK, 1995. Hardcover, 608 pp, \$78.00, ISBN 0-412-43140-8.

Characterisation Techniques in Materials Science and Engineering, Volume 18 of Materials Forum (Annual Monograph Series), Graham Schaffer, ed. Institute of Metals and Materials Australasia Ltd, Victoria, Australia, 1994. Hardcover, 288 pp, U.S. \$125, ISSN 0160-5952.

Characterization in Compound Semiconductor Processing, Materials Characterization Series, G.E. McGuire and Y.E. Strausser. Butterworth-Heinemann, Newton, Massachusetts, 1994. Hardcover, \$64.95, ISBN 7-506-9266-9.

Characterization of Composite Materials, Materials Characterization Series, H. Ishida. Butterworth-Heinemann, Newton, Massachusetts, 1994. Hardcover, \$59.95, ISBN 7-506-9386-X.

Characterization of Organic Thin Films, Materials Characterization Series, A. Ulman. Butterworth-Heinemann, Newton, Massachusetts, 1994. Hardcover, 276 pp, \$59.95, ISBN 7-506-9467-X.

Characterization of Polymers, Materials Characterization Series, H-M. Tong. Butterworth-Heinemann, Newton, Massachusetts, 1994. Hardcover, 319 pp, \$59.95, ISBN 7-506-9287-1.

Cold Plasma in Materials Fabrication, From Fundamentals to Applications, A. Grill. IEEE Press, 1994. Hardcover, 272 pp, \$69.95, ISBN 0-7803-1055-1.

Corrosion Resistance of Zinc and Zinc Alloys, F.C. Porter. Marcel Dekker, New York, 1994. Hardcover, 523 pp, \$185.00, ISBN 0-8247-9213-0.

Critical Currents in Superconductors, Proc. of 7th Intl. Workshop, Alpbach, Austria, January 1994, H.W. Weber, ed. 1994. 700 pp, \$94.00, ISBN 981-02-1809-5.

Cyclic Deformation, Fracture, and Nondestructive Evaluation of Advanced Materials, 2nd Volume, STP 1184, M.R. Mitchell and O. Buck, eds. ASTM, Philadelphia, 1994. Hardcover, 400 pp, \$115, ISBN 0-8031-1989-5.

Elastomer Technology Handbook, N.P. Cheremisinoff, ed. CRC Press, Boca Raton, Florida, 1993. 1120 pp, \$175.00 U.S., \$210.00 outside U.S., ISBN 0-8493-4401-8.

Encyclopedia of Applied Physics, 20 Volumes (Vols. 1-12 published to date), G.L. Trigg, ed. VCH Publishers, Weinheim, Germany, 1995. Hardcover, Approx 650 pp/volume, subscription price: \$235/volume, standing order; individual volumes, \$295 each, ISBN 3-527-26841-3.

The First Nuclear Era, The Life and Times of a Technological Fixer, A.M. Weinberg. AIP Press, New York, 1994. Hardcover, 291 pp, \$24.95, ISBN 1-56396-358-2.

Fourth International Conference on Adaptive Structures, More than 40 Reports from November 1993 Conference, Cologne, Germany, E. Breitbach, B.K. Wada, and M. Natori, eds. Technomic Publishing, Lancaster, Pennsylvania, 1994. Hardcover, 686 pp, \$145.00, ISBN 1-56676-161-1.

Fractals in Science, A. Bunde and S. Havlin, eds. Springer-Verlag, New York, Berlin, 1994. Hardcover, 298 pp, \$59.00, ISBN 0-387-56220-6. DOS or Macintosh diskette included.

Fracture and Failure, Volume 19 of Materials Forum (Annual Monograph Series), G. Shaffer, ed. Institution of Metals and Materials Australasia

Ltd, Victoria, Australia, 1995. Hardcover, U.S. \$200.00, ISSN 0160-5952.

Guide for Laser Materials Processing, Laser Institute of America. CRC Press, Boca Raton, Florida, 1993. 276 pp, \$49.95 U.S., \$59.95 outside U.S., ISBN 0-912035-11-0.

High Performance Materials in Aerospace, Flower. Chapman & Hall, UK, 1995. Hardcover, 400 pp, \$159.95, ISBN 0-412-53350-2.

Infrared Technology Fundamentals, 2nd ed., M. Schlessinger. Marcel Dekker, New York, 1994. 480 pp, \$125.00, ISBN 0-8247-9259-9.

Interacting Electrons and Quantum Magnetism, A. Auerbach. Springer-Verlag, New York, 1994. Hardcover, \$39.95, ISBN 0-387-94286-6.

Introduction to Powder Metallurgy, F. Thümmel and R. Oberacker. The Institute of Materials, Brookfield, VT, 1994. 344 pp, \$110.00, ISBN 0-901716-26-X.

Inverse Problems in the Mechanics of Materials, An Introduction, H.D. Bui. CRC Press, Boca Raton, Florida, 1994. 224 pp, \$79.95 U.S., \$96.00 outside U.S., ISBN 0-8493-8471-0.

Life Prediction of Corrodible Structures, 2 volumes, R.N. Parkins, ed. Nace International, Houston, Texas, 1994. Paperback, 1677 pp, \$200, ISBN 1-877914-60-6.

Magnetism and Magnetic Materials, 2nd ed., J.P. Jakubovics. The Institute of Materials, Brookfield, VT, 1994. Paperback, 174 pp, \$40.00, ISBN 0-901716-54-5.

Materials Characterization for Process Control and Product Conformity, K. Goebbels. CRC Press, Boca Raton, Florida, 1994. 256 pp, \$79.95 U.S., \$96.00 outside U.S., ISBN 0-8493-8957-7.

Materials Metrology and Standards for Structural Performance, Dyson. Chapman & Hall, UK, 1995. Hardcover, 344 pp, \$190.00, ISBN 0-412-58270-8.

Mechanical Testing of Materials, Proc. 1st Conf. on Mechanical Testing of Materials, Melbourne, Australia, 1994. Institute of Metals and Materials Australasia Ltd, Victoria, Australia, 1994. Paperback, approx. 100 pp, approx. U.S. \$45.00, AUD \$60.00

Molecular Electronics and Molecular Electronic Devices, Volume III, K. Sienicki, ed. CRC Press, Boca Raton, Florida, 1994. 272 pp, \$99.95 U.S., \$120.00 outside U.S., ISBN 0-8493-8063-4.

NACE Coating Inspector's Logbook, Nace International, Houston, Texas, 1994. 152 pp, spiralbound: \$40.00, ISBN: 1877914207.

New Trends in Magnetism, Magnetic Materials, and Their Applications, J.L. Morán-López and J.M. Sanchez, eds. Plenum Press, New York and London, 1994. Hardcover, 472 pp, \$125.00, ISBN 0-306-44829-7.

Nondestructive Characterization of Materials VI, R.E. Green Jr., K.J. Kozaczek, and C.O. Ruud, eds. Plenum Press, New York and London, 1994. Hardcover, 826 pp, \$165.00, ISBN 0-306-44816-5.

Numerical Modelling for Electromagnetic Non-Destructive Evaluation, Ida. Chapman & Hall, UK, 1995. Hardcover, 528 pp, \$65.00, ISBN 0-412-46830-1.

Organic Molecular Crystals, Interaction, Localization, and Transport Phenomena, E.A. Silinsh and V. Čápek. AIP Press, New York, 1994. Hardcover, 402 pp, \$60.00, ISBN 1-56396-069-9.

Particle Size Analysis, Bernhardt. Chapman & Hall, New York, 1995. Hardcover, 448 pp, \$95.00, ISBN 0-412-55880-7.

Physical Metallurgy and Processing of Intermetallic Compounds, Stoloff. Chapman & Hall, New York, 1995. Hardcover, 656 pp, \$94.95, ISBN 0-412-98971-9.

Physical Properties of Materials for Engineers, 2nd ed., D.D. Pollock. CRC Press, Boca Raton, Florida, 1993. 608 pp, \$69.95 U.S., \$84.00 outside U.S., ISBN 0-8493-4237-6.

Physics of Semiconductors, B. Sapoval and C. Hermann. Springer-Verlag, New York, 1995. Hardcover, 319 pp, \$49.00, ISBN 0-387-94024-3.

Polymer Science and Engineering, The Shifting Research Frontiers, Committee on Polymer Science and Engineering; Board on Chemical Sciences and Technology; Commission on Physical Sciences, Mathematics, and Applications; and National Research Council. National Academy Press, Washington, DC, 1994. Hardcover, 180 pp, \$34.95, ISBN 0-309-04998-9.

Powder Processing Education for the Year 2000, Proc. 1994 Annual Meeting of Minerals, Metals & Materials Society, February 27–March 3, 1994, D. Vedula, W. Frazier, and G. Janowski, eds. TMS Publications, Pittsburgh, Pennsylvania, 1994. Hardcover, 137 pp, \$48.00, ISBN 0-87339-239-6.

Properties of Narrow Gap Cadmium- Based Compounds, EMIS Databases Series #10, P. Capper, ed. INSPEC, The Institution of Electrical Engineers, England, 1994. Casebound, 600 pp, \$295.00, ISBN 0-85296-880-9.

Pulsed Laser Deposition of Thin Films, D.B. Chrisey and G.K. Hubler, eds. John Wiley & Sons, New York, Toronto, 1994. Hardcover, 613 pp, \$74.95, ISBN 0-471-59218-8.

Quality Handbook for Composite Materials, Geier. Chapman & Hall, UK, 1995. Hardcover, 296 pp, \$74.95, ISBN 0-412-43120-3.

Random Magnetism, High-Temperature Superconductivity, Proc. Raymond L. Orbach Inauguration Symp., Riverside, California, 1993, W.P. Beyerman, N.L. Huang Liu, and D.E. MacLaughlin, eds. University of California, Riverside, 1994. 300 pp, \$68.00, ISBN 981-02-1786-2.

Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials, 2 volumes (PV 94-24), Proc. 185th Meeting of Electrochemical Society, San Francisco, May 1994, K.K. Kadish and R.S. Ruoff, eds. The Electrochemical Society, Pennington, New Jersey, 1994. 1752 pp, \$98.00, ISBN 1-56677-082-3.

Resonant Anomalous X-Ray Scattering, Theory and Applications, G. Materlik, C.J. Sparks, and K. Fischer, eds. Elsevier/North Holland, Amsterdam, 1994. Hardcover, 688 pp, \$200.00, ISBN 0-444-82025-6.

Schott Guide to Glass, Pfaender. Chapman & Hall, London, 1995. Hardcover, 160 pp, \$24.95, ISBN 0-442-01737-5.

Scientific Style and Format, The CBE Manual for Authors, Editors, and Publishers, 6th ed., Style Manual Committee, Council of Biology Editors. Cambridge University Press, Cambridge, UK, 1994. Hardcover, 825 pp, \$28.00, ISBN 0-521-47154-0.

Spacial Light Modulator Technology, Materials, Devices, and Applications, Optical Engineering Series—47, U. Efron, ed. Marcel Dekker, New York, 1994. 680 pp, \$165.00, ISBN 0-8247-9108-8.

Stress Concentrations in Laminated Composites, S.C. Tan. Technomic Publishing, Lancaster, Pennsylvania, 1994. Paperback, 478 pp, \$95.00, ISBN 1-56676-077-1.

Superconductivity, V.L. Ginzburg and E.A. Andryushin. 1994. Hardcover, 100 pp, \$34.00, ISBN 981-02-1459; paperback, \$18.00, ISBN 981-02-1630.

Surface Modification Technologies VII, Proc. 7th Intl. Conf. on Surface Modification Technologies, Japan, 1993, T.S. Sudarshan, K. Ishizaki, M. Takata, and K. Kamata, eds. The Institute of Materials, Brookfield, Vermont, 1994. Hardcover, 1015 pp, \$220.00, ISBN 0-901716-60-X.

Surface Science Techniques, J.M. Walls and R. Smith, eds. Elsevier/Pergamon Science Ltd, Oxford, UK, 1994. Hardcover, 188 pp, \$56.00, ISBN 0-080-42148-2.

Tribology, Friction and Wear of Engineering Materials, I.M. Hutchings. CRC Press, Boca Raton, Florida, 1993. 273 pp, \$55.00 U.S., \$66.00 outside U.S., ISBN 0-8493-7764-1.

Tunnelling '94. Chapman & Hall, UK, 1995. Hardcover, 848 pp, \$171.00, ISBN 0-412-59860-4.

Ultrasound in Liquid and Solid Metals, O.V. Abramov. CRC Press, Boca Raton, Florida, 1994. 512 pp, \$189.95 U.S., \$228.00 outside U.S., ISBN 0-8493-9355-8.

Vacuum Technology, Muller. Chapman & Hall, UK, 1995. Paperback, 240 pp, \$39.95, ISBN 0-412-36460-3.

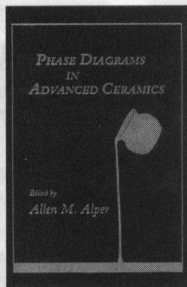
Variational Theories for Liquid Crystals, E.G. Virga. Chapman & Hall, London, 1994. Hardcover, 375 pp, \$84.50, ISBN 0-412-39880-X. □

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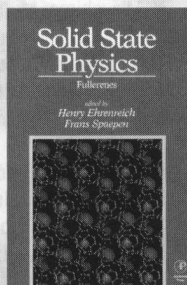
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