

The following recently published books and journals, 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

Advances in Cryogenic Engineering, Materials, Volumes 40A and B, R.P. Reed, F.R. Fickett, L.T. Summers, and M. Stieg, eds. Plenum Press, New York, 1994. Hardcover, 1490 pp, \$225.00, ISBN 0-306-44823-8.

Alternative Materials for the Reinforcement and Prestressing of Concrete, J.L. Clarke, ed. Chapman & Hall, Glasgow, 1993. Hardcover, 204 pp, \$139.00, ISBN 0-7514-0007-6.

Annual Review of Materials Science, Volume 24, Structural Materials, M.C. Flemings, J.B. Wachtman Jr., E.N. Kaufmann, and J.A. Giordmaine, eds. Annual Reviews, Palo Alto, California, 1994. Hardcover, 529 pp, ISBN 0-8243-1724-6.

ASM Heat Treatment and Surface Engineering Conference II, Proceedings of the 2nd ASM Conference in Europe, Germany, 1993, Materials Science Forum, Volumes 163-165, E.J. Mittemeijer, ed. Trans Tech Publications, Aedermannsdorf, Switzerland, 1994. 724 pp, \$200.00, ISBN 0-87849-678-5.

Basics, The, Corrosion Testing Made Easy 3. NACE International, Houston, 1994. Hardcover, 300 pp, \$125.00, ISBN 1-877914-62-2.

Carbon-Carbon Materials and Composites, J.D. Buckley and D.D. Edie, eds. Noyes Publications, Park Ridge, New Jersey, 1993. 281 pp, \$54.00, ISBN 0-8155-1324-0.

Catalyst Characterization: Physical Techniques for Solid Materials, B. Imelik and J.C. Vedrine, eds. Plenum Press, New York, 1994. Hardcover, 702 pp., \$125.00, ISBN 0-306-43950-6.

Ceramic Cutting Tools: Materials, Development, and Performance, E. D. Whitney, ed. Noyes Publications, Park Ridge, New Jersey, 1994. Hardcover, 357 pp, \$86.00, ISBN 0-8155-1355-0.

Ceramic Films and Coatings, J.B. Wachtman and R.A. Haber, eds. Noyes Publications, Park Ridge, New Jersey, 1993. 447 pp, \$78.00, ISBN 0-8155-1318-6.

Characterization of Solid Polymers: New Techniques and Developments, S.J. Spells. Chapman & Hall, London, 1994. Hardcover, 368 pp, \$119.95, ISBN 0-412-58490-5.

Composite Materials: Engineering and Science, F.L. Matthews and R.D. Rawlings. Chapman & Hall, London, 1994. Paperback, 470 pp, \$39.95, ISBN 0-412-55970-6.

Composite Superconductors, Applied Physics Series, K. Osamura, ed. Marcel Dekker, New York, 1994. 440 pp, \$175.00, ISBN 0-8247-9117-7.

Concise Encyclopedia of Composite Materials, revised ed., A. Kelly, ed. Pergamon/Elsevier, Oxford, 1994. Paperback, 349 pp, \$57.50, ISBN 0-08-042300-0.

Concrete in Hot Environments, Modern Concrete Technology 3, I. Soroka. Chapman & Hall, London, 1993. Hardcover, 251 pp, \$103.50, ISBN 0-419-15970-3.

Contacts to Semiconductors: Fundamentals and Technologies, L.J. Brillson, ed. Noyes Publications, Park Ridge, New Jersey, 1993. 680 pp, \$96.00, ISBN 0-8155-1336-4.

Design Data for Reinforced Plastics, A Guide for Engineers and Designers, N.L. Hancox and R.M. Mayer. Chapman & Hall, London, 1994. Hardcover, 326 pp, \$51.95, ISBN 0-412-49320-9.

Diamond Films and Coatings: Development, Properties, and Applications, R.F. Davis, ed. Noyes Publications, Park Ridge, New Jersey, 1993. 421 pp, \$78.00, ISBN 0-8155-1323-2.

Dictionary of Ceramic Science and Engineering, 2nd ed., I.J. McCole. Plenum Press, New York, 1994. Hardcover, 384 pp, \$75.00, ISBN 0-306-44542-5.

DX Centers, Donors in AlGaAs and Related Compounds, Defect and Diffusion Forum, Volume 108, E.M. Merino, ed. Trans Tech Publications, Aedermannsdorf, Switzerland, 1994. 186 pp, \$96.00, SFr 144,00, ISBN 3-908450-03-9.

Electrodeposition, The Materials Science of Coatings and Substrates, J.W. Dini. Noyes Publications, Park Ridge, New Jersey, 1993. 367 pp, \$78.00, ISBN 0-8155-1320-8.

Electron Beam Analysis of Materials, 2nd ed., M.H. Loretto. Chapman & Hall, London, 1994. Paperback, 272 pp, \$38.95, ISBN 0-412-47790-4.

Encyclopaedic Dictionary of Commercial Polymer Blends, L.A. Utracki, ed. ChemTec Publishing, Ontario, Canada, 1994. 640 pp, \$199.00, ISBN 1-895198-07-0.

Engineering with Fibre-Polymer Laminates, P.C. Powell. Chapman & Hall, London, 1994. Hardcover, 441 pp, \$49.95, ISBN 0-412-49610-0.

Engineer's and Manager's Guide to Winning Proposals, D.V. Helgeson. Artech House, Boston, London, 1994. Hardcover, 219 pp, ISBN 0-89006-780-5.

Epoxy Resins, Curing Agents, Compounds, and Modifiers: An Industrial Guide, 2nd ed., E.W. Flick. Noyes Publications, Park Ridge, New Jersey, 1993. 519 pp, \$69.00, ISBN 0-8155-1322-4.

Fatigue Strength Calculation, incl. Fatigue Data Sheets, A. Buch. Trans Tech Publications, Aedermannsdorf, Switzerland. 478 pp, \$104.00, SFr 140,00, ISBN 0-87849-536-3.

Ferroelectric Polymers and Ceramic-Polymer Composites, D.K. Das-Gupta, ed. Trans Tech

Publications, Aedermannsdorf, Switzerland, 1994. 352 pp, \$130.00, SFr 200,00, ISBN 0-87849-674-2.

Galvanic Corrosion Test Methods, Corrosion Testing Made Easy 2. NACE International, Houston, 1994. Hardcover, 68 pp, \$84.00, ISBN 1-877914-55-X.

Glassy Metals III—Amorphization Techniques, Catalysis, Electronic and Ionic Structure, H. Beck and H.-J. Güntherodt, eds. Springer-Verlag, New York, 1994. Hardcover, 272 pp, \$88.00, ISBN 0-387-57440-9.

Handbook of Carbon, Graphite, Diamond, and Fullerenes: Properties, Processing, and Applications, H.O. Pierson. Noyes Publications, Park Ridge, New Jersey, 1993. 405 pp, \$86.00, ISBN 0-8155-1339-9.

Handbook of Deposition Technologies for Films and Coatings: Science, Technology, and Applications, 2nd ed., R.F. Bunshah, ed. Noyes Publications, Park Ridge, New Jersey, 1994. 835 pp, \$98.00, ISBN 0-8155-1337-2.

Handbook of Electron Spin Resonance: Data Sources, Computer Technology, Relaxation, and ENDOR, C.P. Poole Jr. and H.A. Farach, eds. AIP Press, Woodbury, New York, 1994. Hardcover, 660 pp, \$115.00, ISBN 1-56396-044-3.

Handbook of Multilevel Metallization for Integrated Circuits, S.R. Wilson, ed. Noyes Publications, Park Ridge, New Jersey, 1993. 887 pp, \$125.00, ISBN 0-8155-1340-2.

Handbook of Semiconductor Wafer Cleaning Technology: Science, Technology, and Applications, W. Kern, ed. Noyes Publications, Park Ridge, New Jersey, 1993. Hardcover, 623 pp, \$96.00, ISBN 0-8155-1331-3.

Integrating Reliability into Microelectronics Manufacturing, A. Christou. Wiley & Sons, Chichester, New York, 1994. Hardcover, 349 pp, \$64.95, ISBN 0-471-94407-6.

Introduction to the Electronic Properties of Materials, D. Jiles. Chapman & Hall, London, 1994. Paperback, 372 pp, \$39.95, ISBN 0-412-49590-2.

Introduction to Microscopy by Means of Light, Electrons, X-Rays, or Acoustics, 2nd ed., T.G. Rochow and P.A. Tucker. Plenum Press, New York, 1994. Hardcover, 455 pp, \$49.50, ISBN 0-306-44684-7.

Liquid Crystalline Polymers, Proceedings of the International Workshop on Liquid Crystalline Polymers, Capri, Italy, June 1-4, 1993, C. Carfagna, ed. Elsevier/Pergamon, Oxford, 1994. Hardcover, 257 pp, \$130.00, ISBN 0-08-042149-0.

Microbicides for the Protection of Materials, A Handbook, W. Paulus. Chapman & Hall, London, 1993. Hardcover, 496 pp, \$169.50, ISBN 0-412-53450-9.

- Molecular Beam Epitaxy**, A. Cho, ed. AIP Press, New York, 1994. Hardcover, 570 pp, \$45.00, ISBN 1-56396-132-6.
- Nanoscale Characterization of Surfaces and Interfaces**, N.J. DiNardo. VCH Publishers, Weinheim, New York, 1994. Hardcover, 163 pp, £51.50, ISBN 3-527-29247-0.
- Organic Conductors: Fundamentals and Applications**, *Applied Physics 4*, J-P. Farges, ed. Marcel Dekker, New York, 1994. 872 pp, \$195.00, ISBN 0-8247-9216-5.
- Plastics Additives, An Industrial Guide**, 2nd ed., E.W. Flick. Noyes Publications, Park Ridge, New Jersey, 1993. 1089 pp, \$125.00, ISBN 0-8155-1313-5.
- Polycrystalline Semiconductors III, Physics and Technology**, *Proceedings of the 3rd International Conference, France, 1993, Solid State Phenomena, Volumes 37-38*, H.P. Strunk, J.H. Werner, B. Fortin, and O. Bonnaud, eds. Trans Tech Publications, Aedermannsdorf, Switzerland, 1994. 628 pp, \$160.00, SFr 240.00, ISBN 3-908450-04-7.
- Polymer Rheology: Theory and Practice**, Y.G. Yanovsky. Chapman & Hall, London, 1993. Hardcover, 298 pp, \$119.00, ISBN 0-412-53460-6.
- Polymer Technology Dictionary**, T. Whelan. Chapman & Hall, London, 1994. Hardcover, 555 pp, \$146.95, ISBN 0-412-58180-9.
- Properties and Growth of Diamond**, G. Davies, ed. INSPEC, the Institution of Electrical Engineers, London, 1994. Hardcover, 437 pp, \$245.00, ISBN 0-85296-875-2.
- Quantum Optics**, D.F. Walls and G.J. Milburn. Springer-Verlag, New York, Berlin, 1994. Hardcover, 351 pp, \$59.95, ISBN 0-387-57179-5.
- Quasicrystals and Imperfectly Ordered Crystals**, *Proceedings of the International Symposium, China, 1993, Materials Science Forum, Volumes 150-151*, K.H. Kuo and S. Takeuchi, eds. Trans Tech Publications, Aedermannsdorf, Switzerland, 1994. 510 pp, \$146.00, SFr 220.00, ISBN 0-87849-673-4.
- Radiation Curing in Polymer Science and Technology**, *Volume II, Photoinitiating Systems*, J.P. Fouassier and J.F. Rabek, eds. Elsevier Science Publishers, London, New York, 1993. Hardcover, 717 pp, \$152.00, ISBN 1-85166-933-7.
- Radiation Curing in Polymer Science and Technology**, *Volume IV, Practical Aspects and Applications*, J.P. Fouassier and J.F. Rabek, eds. Elsevier Science Publishers, London, New York, 1993. Hardcover, 517 pp, \$152.00, ISBN 1-85166-938-8.
- Random Walk Through Fractal Dimensions**, A. 2nd ed., B.H. Kaye. VCH Publishers, Weinheim, New York, 1994. Paperback, 427 pp, \$78.00, ISBN 1-56081-818-2.
- Rare Elements in Glasses**, *Key Engineering Materials, Volumes 94-95*, J.E. Shelby, ed. Trans Tech Publications, Aedermannsdorf, Switzerland, 1994. Paperback, 428 pp, \$146.00, SwF 220.00, ISBN 0-87849-675-0.
- Reactive Phase Formation at Interfaces and Diffusion Processes**, *Proceedings of the International Meeting, France, 1993, Materials Science Forum, Volumes 155-156*, Y. Limoge and J.L. Bocquet, eds. 596 pp, \$164.00, SFr 248.00, ISBN 0-87849-680-7.
- Review of Progress in Quantitative Nondestructive Evaluation**, *Volumes 13A and B*, D.O. Thompson and D.E. Chimenti, eds. Plenum Press, New York, 1994. Hardcover, 2301 pp, \$345.00, ISBN 0-306-44731-2.
- Rubber Toughened Engineering Plastics**, A.A. Collyer, ed. Chapman & Hall, London, 1994. Hardcover, 366 pp, \$149.95, ISBN 0-412-58380-1.
- Self-Assembling Amphiphilic Systems**, *Volume 16, Phase Transitions and Critical Phenomena*, C. Domb and J.L. Lebowitz. Academic Press, San Diego, London, 1994. Hardcover, 181 pp, \$55.00, ISBN 0-12-220316-X.
- Semiconductor Growth, Surfaces and Interfaces**, G.J. Davies and R.H. Williams, eds. Chapman & Hall, London, 1994. Hardcover, 158 pp, \$49.95, ISBN 0-412-57730-5.
- Soft Chemistry Routes to New Materials, Chimie Douce**, *Proceedings of the International Symposium, France, 1993, Materials Science Forum, Volumes 152-153*, J. Rouxel, M. Tournoux, and R. Brec, eds. Trans Tech Publications, Aedermannsdorf, Switzerland, 1994. 422 pp, \$146.00, SFr 220.00, ISBN 0-87849-677-7.
- Solid State Physics: Fullerenes**, *Volume 48*, H. Ehrenreich and F. Spaepen, eds. Academic Press, San Diego, London, 1994. Paperback, 434 pp, \$49.00, ISBN 0-12-606048-7.
- Statics and Dynamics of Alloy Phase Transformations**, *Proceedings of a NATO Advanced Study Institute, June 21-July 3, 1992, Rhodes, Greece*, P.E.A. Turchi and A. Gonis, eds. Plenum Press, New York, London, 1994. Hardcover, 737 pp, \$149.50, ISBN 0-306-44626-X.
- Statistical Physics of Macromolecules**, *AIP Series in Polymer and Complex Molecules*, A.Y. Grosberg and A.R. Khokhlov. AIP Press, Woodbury, New York, 1994. Hardcover, 350 pp, \$80.00, ISBN 1-56396-071-0.
- Surface Coatings: Raw Materials and Their Usage**, 3rd ed., *Volume 1*. Chapman & Hall, London, 1993. Hardcover, 622 pp, \$133.95, ISBN 0-412-55210-8.
- Surface Layers—Structure-Property Relations**, *Proceedings of the Symposium on Occasion of 150th Anniversary of Delft University of Technology, The Netherlands, 1992, Materials Science Forum, Volume 154*, M.A.J. Somers, E.J. Mittemeijer, and J. Schoonman, eds. Trans Tech Publications, Aedermannsdorf, Switzerland, 1994. 182 pp, \$84.00, SFr 125.00, ISBN 0-87849-679-3.
- Synthetic Diamond: Emerging CVD Science and Technology**, K.E. Spear and J.P. Dismukes. Wiley & Sons, New York, 1994. Hardcover, 688 pp, \$89.95, ISBN 0471-53589-3.
- Techniques and Mechanisms in Electrochemistry**, P.A. Christensen and A. Hammett. Chapman & Hall, London, 1994. Paperback, 379 pp, ISBN 0-7514-0129-3.
- Techniques in Rheological Measurement**, A.A. Collyer, ed. Chapman & Hall, London, 1993. Hardcover, 343 pp, \$115.95, ISBN 0-412-53490-8.
- Textures of Materials ICOTOM-10**, *Proceedings of the International Conference on Textures of Materials, Germany, 1993, Materials Science Forum, Volumes 157-162*, H.J. Bunge, ed. Trans Tech Publications, Aedermannsdorf, Switzerland, 1994. Hardcover, 2168 pp, \$410.00, SFr 620.00, ISBN 0-87849-681-5.
- Thallium-Based High-Temperature Superconductors**, A.M. Hermann and J.V. Yakhmi, eds. Marcel Dekker, New York, 1994. 640 pp, \$195.00, ISBN 0-8247-9114-2.
- Theories and Mechanism of Phase Transitions, Heterophase Polymerizations, Homopolymerization, Addition Polymerization**, *Advances in Polymer Science, Volume 112*. Springer-Verlag, New York, 1994. Hardcover, 246 pp, \$136.00, ISBN 0-387-57236-8.
- Theory and Design of Charged Particle Beams**, M. Reiser. Wiley & Sons, New York, 1994. Hardcover, 607 pp, \$64.95, ISBN 0-471-30616-9.
- Thermal Plasmas: Fundamentals and Applications**, *Volume 1*, M.I. Boulos, P. Fauchais, and E. Pfender. Plenum Press, New York, 1994. Hardcover, 452 pp, \$85.00, ISBN 0-306-44607-3.
- Thin Film Diamond**, A. Lettington and J.W. Steeds, eds. Chapman & Hall, London, 1994. Hardcover, 157 pp, \$65.00, ISBN 0-412-49630-5.
- Working Party Report on Corrosion Inhibitors**, A. *European Federation of Corrosion Publications, Number 11*. The Institute of Materials, London, 1994. Paperback, 163 pp, \$80.00, ISBN 0-901716-07-3.
- X-Ray Diffraction Analysis of Ionic Liquids**, *Molten Salt Forum, Volume 3*, H. Ohno, K. Igarashi, N. Umesaki, and K. Furukawa. 236 pp, \$92.00, SFr 140.00, ISBN 0-87849-676-9.

Journals

Euromaterials, *Incorporating FEMS (Federation of Materials Societies) NEWS*, VCH Publishers, P.O. Box 101161, D-69451 Weinheim, Federal Republic of Germany; 49(0)-62-01/60-65-61; fax 49(0)-62-01/60-65-50. Quarterly; first issue: May 1994. Subscription rate: \$48.00/DM 140.00.

Supramolecular Science, W. Knoll, ed. Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, England, UK; 44(0)-1865-843000; fax 44(0)-1865-843010. Six issues; first issue: September 1994. Subscription rate: \$254.00; £170.00. □