

Books

Since the *MRS Bulletin* receives many more publications than can be reviewed, the *Bulletin* will run a separate list of recently published books and new journals relevant to materials science that have come to our attention. Reviews of some of the books listed here may appear in future issues of the *Bulletin*.

Active Materials and Adaptive Structures, *Smart Materials and Structures Series*, G.J. Knowles, ed. Institute of Physics Publ., United Kingdom, 1992. 925 pp, \$140.00 *hc*, ISBN 0-7503-0191-0.

Adiabatic Shear Localization—Occurrence, Theories and Applications, Y. Bai and B. Dodd. Pergamon Press, New York, 1992. 378 pp, \$130.00 *hc*, ISBN 0-08-041266-1.

Advanced III-V Compound Semiconductor Growth, Processing and Devices, S.J. Pearton, D.K. Sadana, and J.M. Zavada, eds. Materials Research Society, Pittsburgh, PA, 1992. 905 pp, \$56.00 MRS members, \$66.00 U.S. list, \$76.00 foreign, *hc*, ISBN 1-55899-134-4.

Advanced Cementitious Systems: Mechanisms and Properties, *Mater. Res. Soc. Symp. Proc., Volume 245*, F.P. Glasser, G.J. McCarthy, J.F. Young, T.O. Mason, and P.L. Pratt, eds. Materials Research Society, Pittsburgh, PA, 1992. 367 pp, \$54.00 MRS members, \$64.00 U.S. list, \$74.00 foreign, *hc*, ISBN 1-55899-139-5.

Advanced Welding Processes, J. Norrish. Institute of Physics Publ., United Kingdom, 1992. 375 pp, \$140.00 *hc*, ISBN 0-85274-325-4.

Amorphous & Microcrystalline Semiconductor Devices, Volume II: Materials and Device Physics, J. Kanicki, ed. Artech House, Massachusetts, 1992. 753 pp, *hc*, ISBN 0-89006-379-6.

Amorphous & Microcrystalline Semiconductor Devices: Optoelectronic Devices, J. Kanicki, ed. Artech House, Massachusetts, 1991. 458 pp, *hc*, ISBN 0-89006-490-3.

Applications of Multiple Scattering Theory to Materials Science, *Mater. Res. Soc. Symp. Proc., Volume 253*, W.H. Butler, P.H. Dederichs, A. Gonis, and R.L. Weaver. Materials Research Society, Pittsburgh, PA, 1992. 533 pp, \$54.00 MRS members, \$64.00 U.S. list, \$74.00 foreign, *hc*, ISBN 1-55899-147-6.

Applied Chaos, J.H. Kim and J. Stringer, eds. John Wiley & Sons, Inc., New York, 1992. 546 pp, *hc*, ISBN 0-471-55453-1.

Artifice and Artefacts—100 Essays in Materials Science, R.W. Cahn. Institute of Physics Publ., London, United Kingdom, 1992. 365 pp, \$39.90 *hc*, ISBN 0-7503-0152-X.

Atoms in Intense Laser Fields, *Supplement 1, Advances in Atomic, Molecular, and Optical Physics*, M. Gavrilá, ed. Academic Press, California, 1992. 516 pp, *hc*, ISBN 0-12-003901-X.

Basics of Interferometry, P. Hariharan. Academic Press, California, 1992. 213 pp, \$39.95 *hc*, ISBN 0-12-325218-0.

Chemical Microanalysis Using Electron Beams, I.P. Jones. Institute of Materials, United Kingdom, 1992. 241 pp, \$70.00 *hc*, ISBN 0-901716-06-5.

Chemical Processing of Advanced Materials, L.L. Hench and Jon K. West, eds. John Wiley & Sons, New York, 1992. 1,048 pp, *hc*, ISBN 0-471-54201-6.

Chemical Vapor Deposition of Refractory Metals and Ceramics II, *Mater. Res. Soc. Symp. Proc., Volume 250*, T.M. Besmann, B.M. Gallois, and J.W. Warren, eds. Materials Research Society, Pittsburgh, PA, 1992. 393 pp, \$46.00 MRS members, \$56.00 U.S. list, \$66.00 foreign, *hc*, ISBN 1-55899-144-1.

Compaction and Other Consolidation Processes—Volume 2, Advances in Powder Metallurgy & Particulate Materials-1992, compiled by J.M. Capus and R.M. German. Metal Powder Industries Federation, Princeton, New Jersey, 1992. 507 pp, \$135.00 *hc*, ISBN 1-878954-21-0.

Complex Fluids, *Mater. Res. Soc. Symp. Proc., Volume 248*, E.B. Sirota, D. Weitz, T. Witten, and J. Israelachvili, eds. Materials Research Society, Pittsburgh, PA, 1992. 527 pp, \$49.00 MRS members, \$59.00 U.S. list, \$69.00 foreign, *hc*, ISBN 1-55899-142-5.

Concise Encyclopedia of Semiconducting Materials & Related Technologies, S. Mahajan and L.C. Kimerling, eds. Pergamon Press, New York, 1992. 582 pp, *hc*, ISBN 0-08-034724-X.

Crystallography in Modern Chemistry, T.C.W. Mak and G-D. Zhou. John Wiley & Sons, New York, 1992. 1,323 pp, \$175.00 *hc*, ISBN 0-471-54702-6.

Diagnostics and Applications of Thin Films. L. Eckertová and T. Růžička, eds. Institute of Physics Publ., United Kingdom, 1992. 314 pp, \$118.00 *hc*, ISBN 0-7503-0165-1.

Digital Hardware Testing: Transistor-Level Fault Modeling and Testing, R. Rajsuman. Artech House, Massachusetts, 1992. 317 pp, *hc*, ISBN 0-89006-580-2.

Electrical, Optical, and Magnetic Properties of Organic Solid State Materials, *Mater. Res. Soc. Symp. Proc., Volume 247*, L.Y. Chiang, A.F. Garito, and D.J. Sandman, eds. Materials Research Society, Pittsburgh, PA, 1992. 889 pp, \$54.00 MRS members, \$64.00 U.S. list, \$74.00 foreign, *hc*, ISBN 1-55899-141-7.

Electrical Resistivity Handbook, G.T. Dyos and T. Farrell, eds. Peter Peregrinus Ltd., London, United Kingdom, 1992. 735 pp, \$175.00 *hc*, ISBN 0-86341-266-1.

Electron Microdiffraction, J.C.H. Spence and J.M. Zuo. Plenum Press, New York, 1992. 358 pp, *hc*, ISBN 0-306-44262-0.

Electrons in Solids: An Introductory Survey, 3rd edition, R.H. Bube. Academic Press,

California, 1992. 329 pp, \$59.00 *hc*, ISBN 0-12-138553-1.

Engineering Design in Welded Constructions, *Conf. Proc., Intl. Institute of Welding, Madrid, Spain, September 7-8, 1992*, Pergamon Press, 1992. 267 pp, \$150.00 *hc*, ISBN 0-08-041910-0.

Ferroelectric Thin Films II, *Mater. Res. Soc. Symp. Proc., Volume 243*, A.I. Kingon, E.R. Myers, and B. Tuttle, eds. Materials Research Society, Pittsburgh, PA, 1992. 583 pp, \$48.00 MRS members, \$59.00 U.S. list, \$70.00 foreign, *hc*, ISBN 1-55899-137-9.

Flow and Transport in Porous Media, X. Shuitie, ed. World Scientific Publ. Co. Pte. Ltd., River Edge, New Jersey, 1992. 363 pp, *hc*, ISBN 9971-50-934-2.

Fracture Fundamentals, High-Temperature Deformation, Damage, and Design—Volume 10, Fracture Mechanics of Ceramics, R.C. Bradt, D.P.H. Hasselman, D. Munz, M. Sakai, and V. Ya. Shevchenko, eds. Plenum Press, New York, 1992. 655 pp, *hc*, ISBN 0-306-44203-5.

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Handbook of Plastics, Elastomers, and Composites, 2nd edition, C.A. Harper. McGraw-Hill, 1992. 1.1–11.50 plus appendices, *hc*, ISBN 0-07-026686-7.

Hierarchically Structured Materials, *Mater. Res. Soc. Symp. Proc., Volume 255*, I.A. Aksay, E. Baer, M. Sarikaya, and D.A. Tirrell, eds. Materials Research Society, Pittsburgh, PA, 1992. 445 pp, \$48.00 MRS members, \$58.00 U.S. list, \$68.00 foreign, *hc*, ISBN 1-55899-149-2.

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Hydrogen in Crystalline Semiconductors, S.J. Pearton, J.W. Corbett, and M. Stavola. Springer-Verlag, New York, 1992. 363 pp, *hc*, ISBN 3-540-55491-2.

Inorganometallic Chemistry, T.P. Fehlner, ed. Plenum Press, New York, 1992. 401 pp, *hc*, ISBN 0-306-43986-7.

Interface Dynamics and Growth, *Mater. Res. Soc. Symp. Proc., Volume 237*, K.S. Liang, M.P. Anderson, R.F. Bruinsma, and G. Scoles, eds. Materials Research Society, Pittsburgh, PA, 1992. 689 pp, \$53.00 MRS members, \$60.00 U.S. list, \$70.00 foreign, *hc*, ISBN 1-55899-131-X.

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Inventivity—The Art and Science of Research Management, J.J. Gilman. Van Nostrand Reinhold, New York, 1992. 187 pp, \$29.95 *pb*, ISBN 0-442-01186-5.

Laser Guidebook, 2nd edition, *Optical and Electro-Optical Engineering Series*, J. Hecht. McGraw-Hill, 1992. 498 pp, \$44.95 *hc*, ISBN 0-07-027737-0.

Light Emission from Silicon, *Mater. Res. Soc. Symp. Proc.*, Volume 256, S.S. Iyer, R.T. Collins, and L.T. Canham, eds. Materials Research Society, Pittsburgh, PA, 1992. 229 pp, \$50.00 MRS members, \$60.00 U.S. list, \$70.00 foreign, *hc*, ISBN 1-55899-150-6.

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Low Temperature (LT) GaAs and Related Materials, *Mater. Res. Soc. Symp. Proc.*, Volume 241, G.L. Witt, R. Calawa, U. Mishra, and E. Weber, eds. Materials Research Society, Pittsburgh, PA, 1992. 297 pp, \$53.00 MRS members, \$60.00 U.S. list, \$70.00 foreign, *hc*, ISBN 1-55899-135-2.

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Magnetism, Magnetic Materials and Their Applications, *Proc. Intl. Workshop, La Habana, Cuba, May 21–29, 1991*, F. Leccabue and J.L. Sánchez Llamazares, eds. Institute of Physics Publ., United Kingdom, 1992. 342 pp, \$96.00 *hc*, ISBN 0-7503-0189-9.

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Non-Ferrous Materials—Volume 6, Advances in Powder Metallurgy & Particulate Materials-1992, compiled by J.M. Capus and R.M. German. Metal Powder Industries Federation, Princeton, New Jersey, 1992. 457 pp, \$130.00 *hc*, ISBN 1-878954-25-3.

Nonlinear Optics, R.W. Boyd. Academic Press, California, 1992. 439 pp, \$59.95 *hc*, ISBN 0-12-121680-2.

Novel Powder Processing—Volume 7, Advances in Powder Metallurgy & Particulate Materials-1992, compiled by J.M. Capus and R.M. German. Metal Powder Industries Federation, Princeton, New Jersey, 1992. 455 pp, \$130.00 *hc*, ISBN 1-878954-26-1.

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Secondary Operations, Quality, and Standards—Volume 4, Advances in Powder Metallurgy & Particulate Materials-1992, compiled by J.M. Capus and R.M. German. Metal Powder Industries Federation, Princeton, New Jersey, 1992. 479 pp, \$125.00 *hc*, ISBN 1-878954-23-7.

Shape-Memory Materials and Phenomena—Fundamental Aspects and Applications, *Mater. Res. Soc. Symp. Proc., Volume 246*, C.T. Liu, H. Kunsmann, K. Otsuka, and M. Wuttig, eds. Materials Research Society, Pittsburgh,

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Solid State Electronic Engineering Materials, S.O. Pillai. John Wiley & Sons, New Delhi, India, 1992. 388 pp, *hc*, ISBN 0-470-21863-0.

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Thin Films: Stresses and Mechanical Properties III, *Mater. Res. Soc. Symp. Proc., Volume 239*, W.D. Nix, J.C. Bravman, E. Arzt, and L.B. Freund, eds. Materials Research Society, Pittsburgh, PA, 1992. 723 pp, \$56.00 MRS members, \$66.00 U.S. list, \$76.00 foreign, *hc*, ISBN 1-55899-133-6.

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