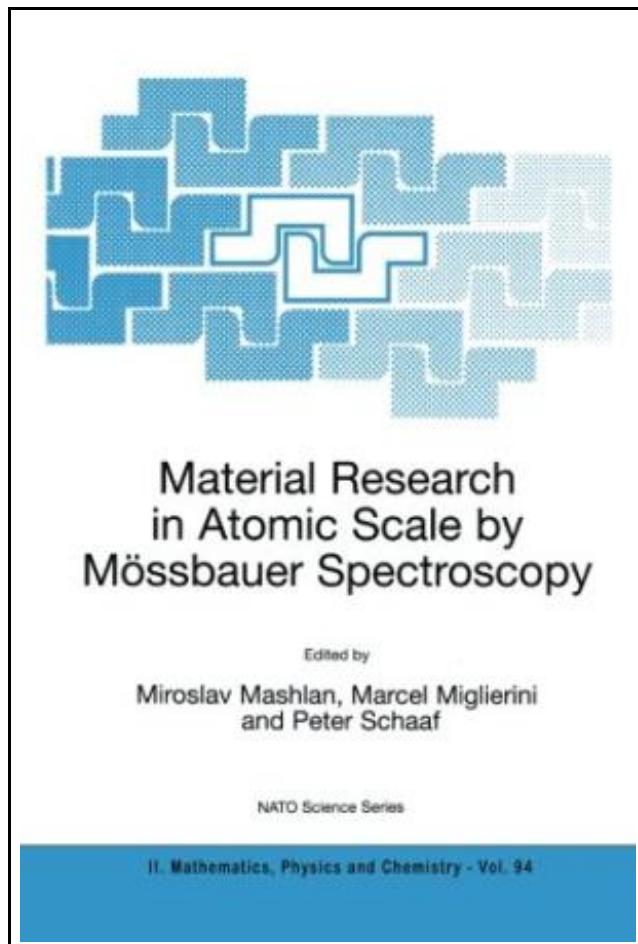


# Material Research in Atomic Scale by Mössbauer Spectroscopy



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## MATERIAL RESEARCH IN ATOMIC SCALE BY M&Ouml;SSBAUER SPECTROSCOPY

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Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the NATO Advanced Research Workshop, held in Smolenice, Slovak Republic, 1-6 June 2002 | Mössbauer spectroscopy is uniquely able to probe hyperfine interactions by looking at the short-range order of resonant atoms. Materials containing an appropriate isotope as one of their constituent atoms, such as iron or tin, are readily investigated. But even materials that do not contain Mössbauer-active atoms can be investigated if the probe atoms are incorporated in minor quantities (ca. 0.1 at.-%) to act as molecular-level indicators. These 35 papers collected here represent a state-of-the-art description of Mössbauer spectroscopy techniques applied to advanced materials. The topics covered comprise investigations of nanomaterials, nanoparticles, and quasicrystals, artificially structured materials as well as applications of Mössbauer spectroscopy in chemistry, mineralogy and metallurgy. The main aim of is the dissemination of information on research and recent developments of the method in materials science as obtained in leading Mössbauer laboratories. | Preface. I: Nanoscale Systems. Nanocrystalline Oxides and Sulphides Prepared by Hydrothermal Processing and Mechanical Milling; F.J. Berry, et al. Mechanosynthesis of Nanostructured Materials; G. Le Caér, et al. Iron(III) Oxides Formed during Thermal Conversion of Rhombohedral Iron(III) Sulfate; R. Zboril, et al. Phase Analysis of the Fe-C Nanopowder Prepared by Laser Pyrolysis; B. David, et al. II: Conversion Electron Mössbauer Spectroscopy. On the Applications of Mössbauer Spectroscopy to the Study of Surfaces; R. Gancedo, et al. Conversion Electron Mössbauer Spectroscopy Study of Langmuir-Blodgett Films; D. Hanzel, B. Stahl. Modification of Steel Surfaces Following Plasma and Ion Beam Implantation Investigated by Means of CEMS; A.L. Kholmetskii, et al. CEMS Studies of Laser Treated Disordered Amorphous and Nanocrystalline Alloys; M. Miglierini, et al. CEMS Measurement of Surface Hardening of Tooled Wheels; M. Seberíni, et al. III: Magnetism. Magnetic Iron-Based Oxides Investigated by  $^{57}\text{Fe}$  Mössbauer...

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