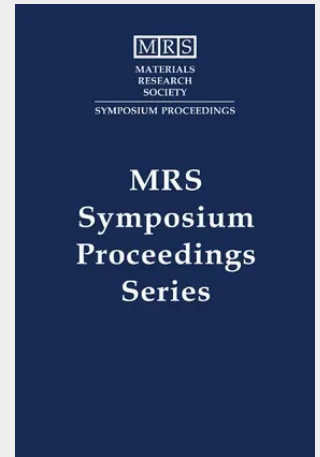


Laser-Solid Interactions for Materials Processing: Volume 617

The unique feature of laser beams to deliver intense light at a specific photon energy makes lasers useful and enabling in the processing of advanced materials. The availability of high-intensity laser sources over a wide spectral and temporal range has inspired advances in both the fundamental understanding of laser-solid interactions and the application of lasers in materials processing and characterization. This progress has resulted in a growing acceptance of lasers in material and device synthesis. For instance, pulsed-laser deposition has emerged as an important process for growing high-quality metal-oxide thin films, including high-T_c superconductors, dielectric materials, magnetoresistive materials and semiconducting oxides. This book, first published in 2001, brings together materials science and technology communities to discuss recent progress of laser ablation both in fundamental studies and applications. Topics include: fundamentals of laser desorption and ablation; laser-driven nanoparticle formation; laser direct writing; lasers in micromachining and surface modification; laser-based deposition of oxides and pulsed-laser deposition.



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