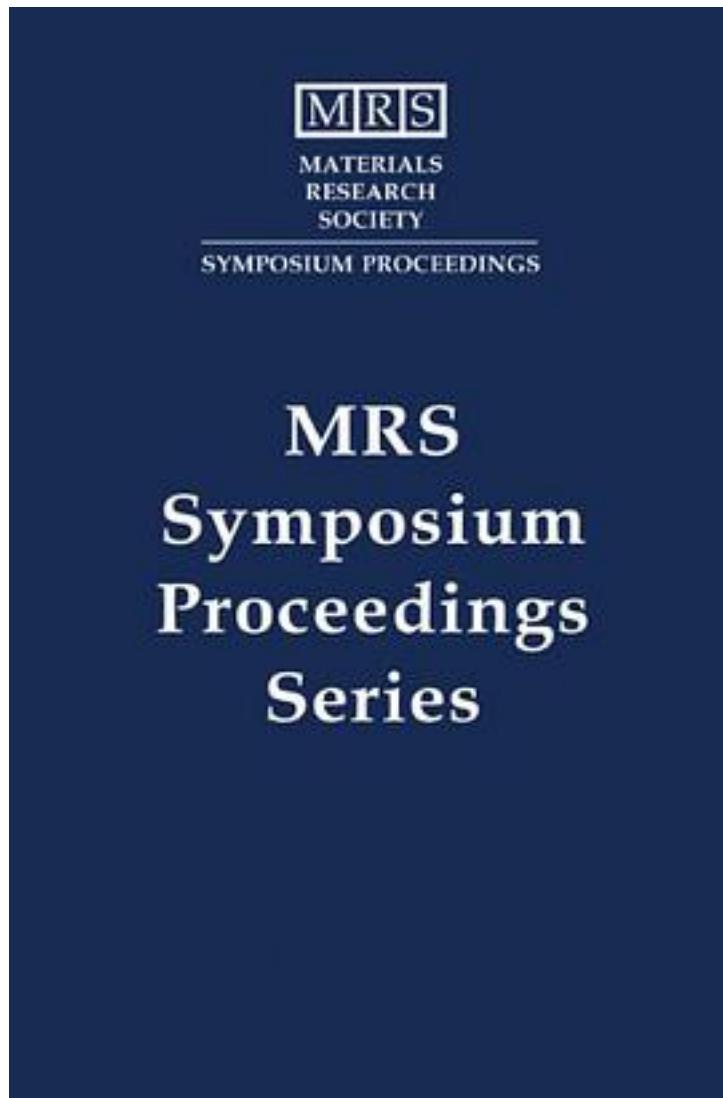


Modeling and Numerical Simulation of Materials Behavior and Evolution



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出版者:Materials Research Society

出版时间:2002-8

装帧:HRD

isbn:9781558996670

In recent years, numerical simulation and modeling of materials coupling multiple-length scales has received much attention. While challenges remain, significant advances have been made. An equally important area of materials modeling, one that has received much less attention, is the integration of multiple physical phenomena for simulation of complex materials behavior. This volume offers a review of current capabilities in materials modeling and simulation that (1) bridge length scales and time scales and (2) couple a variety of physical phenomena to either provide insight into fundamental aspects of materials structure or predict materials behavior. By bringing together the materials modeling community from around the world, the volume provides a current snapshot of the field. Topics include: multiscale modeling; mechanical properties; transport phenomena; phase transformations; microstructure and its evolution; atomistic modeling; and materials structure and properties.

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