



Multiscale Modeling of Materials - 2000: Volume 653 (MRS Proceedings)

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Multiscale modeling of materials has emerged as a powerful tool with application to metals, semiconductors, polymers and biochemical systems. Together with rapid advances in computing power, these new methods represent an important step toward the goal of linking atomic-scale processes - modeled with interatomic potentials, tight-binding and ab initio methods - to simulations of macroscopic phenomena. This volume, first published in 2001, brings together scientists and engineers from various disciplines to discuss methodologies for linking disparate length and time scales, and for understanding and predicting the behavior of complex materials systems. The book is organized around several major themes representing current challenges in multiscale simulation and modeling. Topics include: length-scale and time-scale problems; applications to microstructure evolution; plastic deformation and fracture; multiscale modeling schemes; length scales and size effects.

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