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There has been increasing interest in using what are termed 'multiscale modeling' approaches to understand the effects of composition and microstructure on mechanical behavior. It is now quite common to find publications that report on related phenomena using atomistic, microscale (dislocation dynamics) and mesoscale/continuum computer simulations. With this enhanced interest in multiscale phenomena emerges a need for experimental work that validates and challenges the predictive capabilities of modeling and simulations. This book brings together experimentalists and modelers working in common areas of interest, to exchange information and lead to more tightly coupled experimental and modeling work. Topics include: plasticity at the continuum length scale; nonlocal plastic theory and dislocation phenomena; dislocation dynamics - experiments and simulation; dislocation core properties and effects; fracture and crack propagation; dislocation interactions with interfaces and grain boundaries; and microstructural modeling for industrial metals processing.

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