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Continuum Models for Materials with Microstructure
Continuum Models for Materials with Microstructure Edited by H. B. Mühlhaus, CSIRO, Nedlands, Australia When the characteristic length-scale (‘fabric dimension’) of the microstructure of materials is not small when compared to the macroscopic dimensions, the well established framework for the modelling of deformation processes for simple materials needs enhancement. To introduce an internal length scale, one has to resort to continuum models such as Nonlocal Theories, Cosserat or Gradient-type Models, Discrete Element and Lattice Theories or modified Viscoplastic Models. These new approaches are addressed in this volume. It includes contributions from research areas as diverse as bio-mechanics, concrete engineering and solid state physics. Generalised continuum models and its applications are presented and complemented by numerical and analytical tools for the solution of boundary value problems.

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