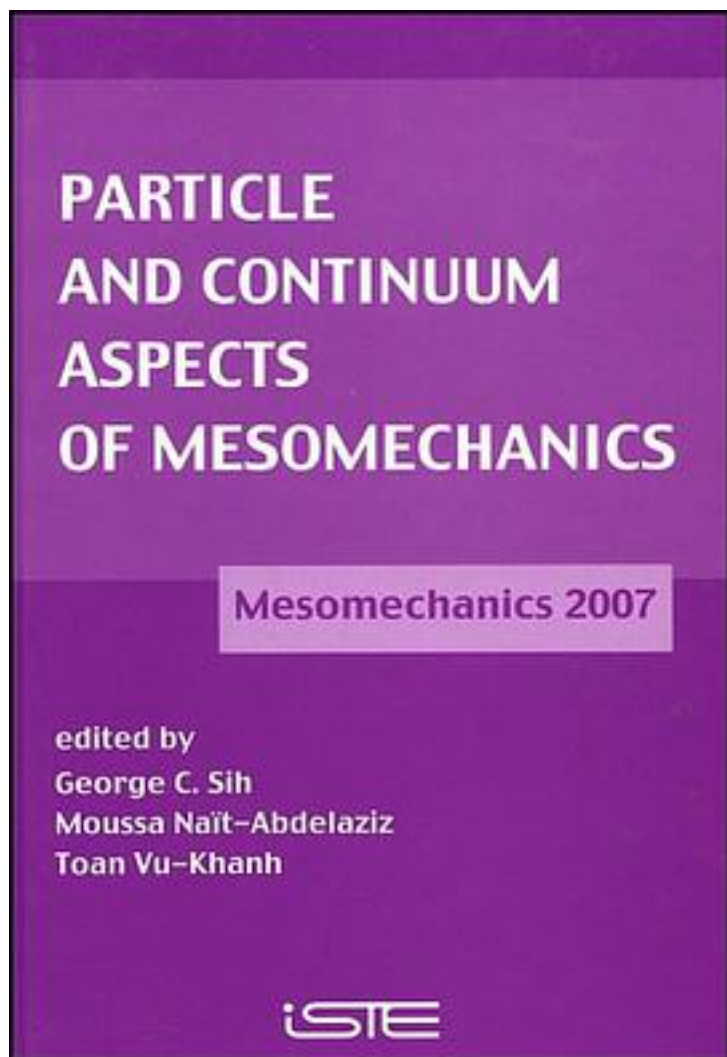


Particle and Continuum Aspects of Mesomechanics



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This title brings together a variety of papers presented at the 9th annual Meso meeting in 2007. The topics selected for Meso 2007 are designed to illustrate the relation of thresholds to multiscaling: Flow through capillary tubes in contrast to pipes Laminar and turbulent flow transition Heat convection of thin wires in contrast to cylinders Electrical conductance of macro- and nano-circuits Rubbery and glassy polymers Single- and poly-crystal behavior Strength of wires and round cylindrical bars Uni-axial and multi-axial material: linear and non-linear response Thin and thick plate behavior Brittle and ductile fracture Small and large crack growth behavior Low and high temperature effects Local and global material property characteristics Small and large bodies: size and time effects Specimen and structure

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