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Autore	Associazione italiana dei costituzionalisti
Titolo	Problemi pratici della laicità agli inizi del secolo 21. : atti del 22. convegno annuale : Napoli, 26-27 ottobre 2007 / Associazione italiana dei costituzionalisti
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Titolo	Particle and continuum aspects of mesomechanics / / edited by George C. Sih, Moussa Nait-Abdelaziz, Toan Vu-Khanh
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ISBN	9786610847600 9781280847608 1280847603 9780470610794 0470610794 9780470393444 0470393440 9781847046758 1847046754
Descrizione fisica	1 online resource (837 p.)
Collana	ISTE ; ; v.2
Altri autori (Persone)	SihG. C (George C.) Nait-AbdelazizMoussa Vu-KhanhToan
Disciplina	620.1/1292
Soggetti	Fracture mechanics Continuum mechanics Microstructure Micromechanics - Mathematical models

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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Particle and Continuum Aspects of Mesomechanics; Table of contents; Section I: Physical Mechanisms of Multiple Damage; Multiple hierarchical scale-dependency on physical mechanisms of material damage: macromechanical, microstructural and nanochemical; Surface layers and inner interfaces as functional subsystems of solid; Microstructural evolution in dual-phase steels at high strain-rates; Plastic deformation in single cryctal Ni3Fe (thin and thick plates); Mechanisms of physical aging in polypropylene; Section II: Physica1, Mesoscopical and Multiscale Models Finite element homogeneization for the determination of the RVE size for elastoviscoplastic Polycrystalline MaterialsAn incremental energy based fatigue life calculations method for metallic structures under multiaxial amplitude loadings; Meso/micro fatigue crack growth involving crystal structure and crack geometry; Development of a nonlinear homogeneization method: evaluation and application to a rubber-reinforced material; Cavitation of rubber toughened polymer: numerical and experimental investigation; Ductile damage by interface decohesion A multiscale discussion of fatigue and shakedown for notched structuresTwo scale approach for the defect tolerance fatigue design of automotive components; Section III: Film, Layer and Interface; Plastic deformation and fracture of thin metallic films on annealing in terms of the multilevel model of a deformed solid; Mesoscopic model for electroactive Composite Films and its applications; Interfaces of one-way glasslepoxy composite in inflexion; Point defects of the elastic properties of layered structured nano-materials; DFT study of interactions of water on Kaolinte and Goethite surfaces Nanolayered MAX phases from ab initio calculationsSection IV: Crack Models and Solutions; Fracture initiation at re-entrant corners: experiments and finite fracture mechanics predictions; Buckling analysis of cracked columns subjected to lateral loads; Micro-cavity effect on the plastic zone size ahead of the crack tip in confined plasticity; Effect of microcrack on plastic zone size ahead of main crack in small-scale plasticity; Stress intensity factor of surface and interface cracks in coating/substrate system; T-stress by stress difference method (SDM) Elasto-inelastic self-consistent model of ellipsoidal inclusionCrack propagation in solid oxide fuel cells; Elastoplastic solution for an eccentric crack loaded by two pairs of point tensile forces; J-integral and CMOD for cracked cylinders; Oscillating contact of isotropic elastic half-spaces; Section V: Nanomaterials; Mechanical properties of thin pulsed laser deposited amorphous carbons and amorphous carbon/silver nanocomposites; Extension of the Hertz model for accounting to surface tension in nano-indentation tests of soft materials Multi-scale modeling of tensile behavior of carbon nanotube-reinforced composites
Sommario/riassunto	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 pipesLaminar and turbulent flow

transitionHeat convection of thin wires in contrast to cylindersElectrical conductance of macro- and nano-circuitsRubbery and glassy polymersSingle- and poly-crystal behaviorStrength of wires and round cylindrical barsUni-axial and multi-axial material: linear and non-linear response<li