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Autore	PARDESSUS, Jean Marie <1772-1853>
Titolo	Cours de droit commercial / par J.M.Pardessus
Pubbl/distr/stampa	Bruxelles : Société Belge de Libraire Hauman et C., 1842
Edizione	[Nouvelle edition, augmenteé de la législation et de la jurisprudence de Belgique, et de la concordance avec les Nouveaux Codes de Hollande]
Descrizione fisica	volumi ; 24 cm
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Collocazione	XV.2.C. 719 1 XV.2.C. 719 2
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Titolo	Multiscale modeling in solid mechanics : computational approaches / / editors, Ugo Galvanetto, M.H. Ferri Aliabadi
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Collana	Computational and experimental methods in structures ; ; vol. 3
Altri autori (Persone)	GalvanettoUgo AliabadiM. H
Soggetti	Solids - Mathematical models Solid state physics Mechanics Multiscale modeling
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	CONTENTS; Preface; Contributors; Computational Homogenisation for Non-Linear Heterogeneous Solids V. G. Kouznetsova, M. G. D. Geers and W. A. M. Brekelmans; 1. Introduction; 2. Basic Hypotheses; 3. Definition of the Problem on the Microlevel; 4. Coupling of the Macroscopic and Microscopic Levels; 4.1. Deformation; 4.2. Stress; 4.3. Internal work; 5. FE Implementation; 5.1. RVE boundary value problem; 5.1.1. Fully prescribed boundary displacements; 5.1.2. Periodic boundary conditions; 5.2. Calculation of the macroscopic stress; 5.2.1. Fully prescribed boundary displacements 5.2.2. Periodic boundary conditions5.3. Macroscopic tangent stiffness; 5.3.1. Condensation of the microscopic stiffness: Fully prescribed boundary displacements; 5.3.2. Condensation of the microscopic stiffness: Periodic boundary conditions; 5.3.3. Macroscopic tangent; 6. Nested Solution Scheme; 7. Computational Example; 8. Concept of an RVE within Computational Homogenisation; 9. Extensions of the Classical Computational Homogenisation Scheme; 9.1. Homogenisation towards second gradient continuum; 9.2. Computational homogenisation for beams and shells

9.3. Computational homogenisation for heat conduction problemsAcknowledgements; References; Two-Scale Asymptotic Homogenisation-Based Finite Element Analysis of Composite Materials Qi-Zhi Xiao and Bhushan Lal Karihaloo; 1. Introduction; 2. Mathematical Formulation of First- and Higher-Order Two-Scale Asymptotic Homogenisation; 2.1. Two-scale expansion; 2.2. O(.2) equilibrium: Solution structure of ui(0); 2.3. O(.1) equilibrium: First-order homogenisation and solution structure of u(1)m; 2.4. O(0) equilibrium: Second-order homogenisation; 2.4.1. Solution structure of u(2)
2.4.2. Solution of u(0) m2.4.3. Solution of mno k (y); 2.4.4. Constraints from higher-order solutions; 2.5. O(1) equilibrium: Third-order homogenisation; 2.5.1. Solution of u(3) k; 2.5.2. Constraints from higher-order terms; 3. Variational Formulation of Problem (29); 4. Finite Element Methods; 4.1. Displacement compatible elements from the potential principle; 4.2. Element-free Galerkin method from the potential principle; 4.2.1. MLS interpolant; 4.2.2. Imposition of the essential boundary conditions; 4.2.3. Discontinuity in the displacement field
4.2.4. Interfaces with discontinuous first-order derivatives4.3. Displacement incompatible element from the potential principle; 4.3.1. 2D 4-node incompatible element; 4.3.2. 3D 8-node incompatible element; 4.4. Hybrid stress elements from the Hellinger-Reissner principle; 4.4.1. Plane 4-node Pian and Sumihara (PS) 5 element; 4.4.2. 3D 8-node 18 hybrid stress element; 4.5. Enhanced-strain element based on the Hu-Washizu principle; 4.5.1. Plane 4-node enhanced-strain element; 4.5.2. 3D 8-node enhanced-strain element; 4.6. Comments on the various methods
5. Enforcing the Periodicity Boundary Condition and Constraints from Higher-Order Equilibrium in the Analysis of the RUC.

Sommario/riassunto

This unique volume presents the state of the art in the field of multiscale modeling in solid mechanics, with particular emphasis on computational approaches. For the first time, contributions from both leading experts in the field and younger promising researchers are combined to give a comprehensive description of the recently proposed techniques and the engineering problems tackled using these techniques. The book begins with a detailed introduction to the theories on which different multiscale approaches are based, with regards to linear Homogenisation as well as various nonlinear approa.

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Pubbl/distr/stampa	Jefferson City, Mo., : Library Development Division of the Missouri State Library, [1996]-
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Disciplina	027
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Title from cover.