1. Record Nr. UNISA990000179640203316

Titolo	Parallel computing 89 : proceedings of the International conference, Leiden, 29 August-1 September, 1989 / edited by David J. Evans, Gerhard R. Joubert, Frans J. Peters
Pubbl/distr/stampa	Amsterdam [etc.] : North-Holland, 1990
ISBN	0-444-88386-X
Descrizione fisica	XIV, 630 p. : ill. ; 27 cm
Collana	Advances in parallel computing ; 2
Disciplina	00435
Collocazione	004.35 PAR
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910133643703321

Titolo	Advanced computational materials modeling [[electronic resource]] : from classical to multi-scale techniques / / edited by Miguel Vaz Junior, Eduardo A. de Souza Neto, and Pablo A. Munoz-Rojas
Pubbl/distr/stampa	Weinheim, Germany, : Wiley-VCH, c2011
ISBN	1-283-30241-1 9786613302410 3-527-63232-8 3-527-63231-X
Edizione	[4th ed.]
Descrizione fisica	1 online resource (452 p.)
Altri autori (Persone)	Vaz JuniorMiguel NetoE. A. de Souza (Eduardo) Munoz-RojasPablo A
Disciplina	620.11015118
Soggetti	Materials - Mathematical models Finite element method Electronic books.
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Advanced Computational Materials Modeling: From Classical to Multi-Scale Techniques; Contents; Preface; List of Contributors; 1 Materials Modeling - Challenges and Perspectives; 1.1 Introduction; 1.2 Modeling Challenges and Perspectives; 1.2.1 Mechanical Degradation and Failure of Ductile Materials; 1.2.1.1 Remarks; 1.2.2 Modeling of Cellular Structures; 1.2.2.1 Remarks; 1.2.3 Multiscale Constitutive Modeling; 1.3 Concluding Remarks; Acknowledgments; References; 2 Local and Nonlocal Modeling of Ductile Damage; 2.1 Introduction; 2.2 Continuum Damage Mechanics; 2.2.1 Basic Concepts of CDM 2.2.2 Ductile Plastic Damage2.3 Lemaitre's Ductile Damage Model; 2.3.1 Original Model; 2.3.1.1 The Elastic State Potential; 2.3.1.2 The Plastic State Potential; 2.3.1.3 The Dissipation Potential; 2.3.1.4 Evolution of Internal Variables; 2.3.2 Principle of Maximum Inelastic Dissipation; 2.3.3 Assumptions Behind Lemaitre's Model; 2.4 Modified Local Damage Models; 2.4.1 Lemaitre's Simplified Damage Model; 2.4.1.1 Constitutive Model; 2.4.1.2 Numerical Implementation; 2.4.2 Damage Model with Crack Closure Effect; 2.4.2.1 Constitutive Model; 2.4.2.2 Numerical Implementation 2.5 Nonlocal Formulations2.5.1 Aspects of Nonlocal Averaging; 2.5.1.1 The Averaging Operator; 2.5.1.2 Weight Functions; 2.5.2 Classical Nonlocal Models of Integral Type; 2.5.2.1 Nonlocal Formulations for Lemaitre's Simplified Model; 2.5.3 Numerical Implementation of Nonlocal Integral Models; 2.5.3.1 Numerical Evaluation of the Averaging Integral; 2.5.3.2 Global Version of the Elastic Predictor/Return Mapping Algorithm; 2.6 Numerical Analysis; 2.6.1 Axisymmetric Analysis of a Notched Specimen; 2.6.2 Flat Grooved Plate in Plane Strain; 2.6.3 Upsetting of a Tapered Specimen 2.6.3.1 Damage Prediction Using the Lemaitre's Simplified Model2.6.3.2 Damage Prediction Using the Lemaitre's Model with Crack Closure Effect; 2.7 Concluding Remarks; Acknowledgments; References; 3 Recent Advances in the Prediction of the Thermal Properties of Metallic Hollow Sphere Structures; 3.1 Introduction; 3.2 Methodology; 3.2.1 Lattice Monte Carlo Method; 3.2.2 Finite Element Method; 3.2.2.1 Basics of Heat Transfer; 3.2.2.2 Weighted Residual Method; 3.2.2.3 Discretization and Principal Finite Element Equation; 3.2.3 Numerical Calculation Models 3.3 Finite Element Analysis on Regular Structures3.4 Finite Element Analysis on Cubic-Symmetric Models; 3.5 LMC Analysis of Models of Cross Sections; 3.5.1 Modeling; 3.5.2 Results; 3.6 Computed Tomography Reconstructions; 3.6.1 Computed Tomography; 3.6.2 Numerical Analysis; 3.6.2.1 Microstructure; 3.6.2.2 Mesostructure; 3.6.3 Results; 3.7 Conclusions; References; 4 Computational Homogenization for Localization and Damage; 4.1 Introduction; 4.1.1 Mechanics Across the Scales; 4.1.2 Some Historical Notes on Homogenization; 4.1.3 Separation of Scales 4.1.4 Computational Homogenization and Its Application to Damage and Fracture
Sommario/riassunto	With its discussion of strategies for modeling complex materials using new numerical techniques, mainly those based on the finite element method, this monograph covers a range of topics including computational plasticity, multi-scale formulations, optimization and parameter identification, damage mechanics and nonlinear finite elements.

3. Record Nr. UNINA9910557448703321

Autore	Adamson Catherine
Titolo	Antiviral Agents
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 online resource (386 p.)
Soggetti	Biology, life sciences Research and information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Antiviral agents are used for the treatment of viral diseases. Antiviral drugs have been successfully developed and used clinically for a limited number of important human viral diseases notably caused by human immunodeficiency virus (HIV), hepatitis C virus (HCV), hepatitis B virus (HBV), herpes, and influenza viruses. Despite the successes of these antiviral drugs, issues with drug resistance and toxicity remain challenging. These challenges are driving research to identify new drug candidates and to investigate novel drug targets to develop new mechanistic drug classes. Antiviral agents are not available against many viruses that cause human disease and economic burdens; in particular, the development of antiviral agents against emerging, re-emerging, and neglected viruses is increasingly becoming a priority. This book includes six review articles that discuss new antiviral strategies. The reviews either discuss advances relating to a specific virus or new therapeutic targets and approaches. The book includes 15 original research articles reporting new antiviral agents against a variety of clinically and economically important viruses and studies into the prevalence or acquisition of drug resistance. Overall, this book is an exciting collection of new research and ideas relating to the development of antiviral agents.