1. Record Nr. UNINA9910784969003321

Autore	Hoover William G (William Graham), <1936->
Titolo	Smooth particle applied mechanics [[electronic resource]] : the state of the art / / William Graham Hoover
Pubbl/distr/stampa	Singapore, : World Scientific, c2006
ISBN	1-281-92449-0 9786611924492 981-277-288-X
Descrizione fisica	1 online resource (315 p.)
Collana	Advanced series in nonlinear dynamics ; ; v. 25
Disciplina	531
Soggetti	Mechanics, Analytic Mechanics, Applied - Mathematical models Particle methods (Numerical analysis)
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	Contents ; Dedication and Motivation ; Preface ; 1. Physical Ideas Underlying SPAM ; 1.1 Motivation and Summary ; 1.2 Particles versus Continua ; 1.3 Newton's Particle Mechanics ; 1.4 Eulerian and Lagrangian Continuum Mechanics ; 1.5 Computer Simulation of Microscopic Particle Motion 1.6 Liouville's Theorem Statistical Mechanics ; 1.7 Simulating Continua with Particles ; 1.8 SPAM [Smooth Particle Applied Mechanics] ; 1.9 Example: A Molecular Dynamics Simulation ; 1.10 References ; 2. Continuum Mechanics ; 2.1 Summary and Scope of Continuum Mechanics 2.2 Evolution Equations for Fluids and Solids 2.3 Initial and Boundary Conditions ; 2.4 Constitutive Equations for Equilibrium Fluids ; 2.5 Constitutive Relations for Nonequilibrium Fluids ; 2.6 Artificial Viscosity and Conductivity ; 2.7 Constitutive Relations for Elastic Solids

2.8 Constitutive Relation for Nonequilibrium Plasticity
2.9 Plasticity Algorithm ; 2.10 Example: Heat Conduction in One Dimension ; 2.11 Example: Sound Propagation in One Dimension
; 2.12 Example: Rayleigh-Benard Flow in Two Dimensions
; 2.13 References ; 3. Smooth Particle Methods
3.1 Summary 3.2 Motivation ; 3.3 Basic Equations ; 3.4 Interpolation on an Irregular Grid
; 3.5 Alternative Averages: [f0 f1 f2 ...]
; 3.6 Weight Functions ; 3.7 Continuity Equation from V.v with SPAM ; 3.8 Evaluating the Spatial Derivatives {Vp V.P V.Q}
3.9 SPAM Equation of Motion and Energy Equation

Sommario/riassunto

This book takes readers through all the steps necessary for solving hard problems in continuum mechanics with smooth particle methods. Pedagogical problems clarify the generation of initial conditions, the treatment of boundary conditions, the integration of the equations of motion, and the analysis of the results. Particular attention is paid to the parallel computing necessary for large problems and to the graphic displays, including debugging software, required for the efficient completion of computational projects. The book is self-contained, with summaries of classical particle mechanic

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Autore	Audard Catherine
Titolo	John Rawls / / Catherine Audard
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ISBN	1-317-49393-1 1-317-49394-X 1-315-71210-5 1-282-53463-7 1-84465-313-7 9786612534638
Descrizione fisica	1 online resource (viii, 328 pages) : digital, PDF file(s)
Collana	Philosophy now
Disciplina	191
Soggetti	Philosophers, Modern
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	First published 2007 by Acumen.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The primacy of justice -- Constructing the principles of justice -- Defending democratic equality : the argument from the original position -- Pluralism and political consensus : the argument for political liberalism -- A reasonable law of peoples for a real world -- Conclusion: Beyond liberalism.
Sommario/riassunto	John Rawls (19212002) is one of the most influential thinkers of the twentieth century. Contemporary political philosophy has been reshaped by his seminal ideas and most current work in the discipline is a response to them. This book introduces his central ideas and examines their contribution to contemporary political thought. In the first part of the book Catherine Audard focuses on Rawls conception of political and social justice and its justification as presented in his groundbreaking A Theory of Justice. This includes sustained examination of Rawls moral philosophy and its core thesis, the primacy of justice, the complex relation between Rawls views and utilitarianism, and his most famous concept, the Original Position Device. In the second half of the book, Audard explores Rawls more practical concerns for stability and political consensus, citizenship and international justice, and shows the continuity between these concerns

and his earlier work. Throughout, Audard contextualizes Rawls ideas by giving a sense of their historical development, which underlines the intellectual cohesion of his thought. The move between ethics and politics so characteristic of Rawls work, and which makes for the richness of his philosophy, is shown to also create for it significant problems. John Rawls combines clear exposition with insightful analysis and provides an interpretative and critical framework that will help shape ongoing debates surrounding Rawls work.