

1. Record Nr.	UNINA9910449885603321
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Titolo	Smoothed particle hydrodynamics [[electronic resource] ] : a meshfree particle method // G.R. Liu and M.B. Liu
Pubbl/distr/stampa	Singapore ; ; London, : World Scientific, 2003
ISBN	1-281-87680-1 9786611876807 981-256-440-3
Descrizione fisica	1 online resource (473 p.)
Altri autori (Persone)	LiuM. B
Disciplina	532.5
Soggetti	Meshfree methods (Numerical analysis) Particle methods (Numerical analysis) Hydrodynamics 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 (p. 423-444) and index.
Nota di contenuto	Preface; The Authors; Contents; Chapter 1 Introduction; Chapter 2 SPH Concept and Essential Formulation; Chapter 3 Construction of Smoothing Functions; Chapter 4 SPH for General Dynamic Fluid Flows; Chapter 5 Discontinuous SPH (DSPH); Chapter 6 SPH for Simulating Explosions; Chapter 7 SPH for Underwater Explosion Shock Simulation; Chapter 8 SPH for Hydrodynamics with Material Strength; Chapter 9 Coupling SPH with Molecular Dynamics for Multiple Scale Simulations; Chapter 10 Computer Implementation of SPH and a 3D SPH Code; Bibliography; Index
Sommario/riassunto	This is the first-ever book on smoothed particle hydrodynamics (SPH) and its variations, covering the theoretical background, numerical techniques, code implementation issues, and many novel and interesting applications.