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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.