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Nota di contenuto	Vortex Simulation and Identification -- Contents -- Preface -- Chapter1 Periodic Navier Stokes Equations for a 3D Incompressible Fluid with LiutexVortex Identification Method -- Chapter2 Mass Flux in Corkscrew FlowVortices in theVenus PlasmaWake -- Chapter3 Magnetic Skyrmions and Quasi Particles: A Review on Principles and Applications -- Chapter4 Identification of Trailing Vortex Dynamic States -- Chapter5 Numerical Simulation of Energy Cascading inTurbulent Flows Using Sabra Shell Model -- Chapter6 Algorithm to Generate Liutex Core Lines Based on Forward Liutex Magnitude Gradient Lines.
Sommario/riassunto	This book includes six chapters covering new vortex theories, vortex identification methods, and vortex simulation and applications.Vortices are ubiquitous in the universe and include tornados, hurricanes, airplane tip vortices, polar vortices, and even star vortices in the galaxy.