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Titolo	Vortex dynamics : from physical to mathematical aspects // edited by Ilkay Bakirtas, Nalan Antar
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Nota di contenuto	1. Dipole Solitons in a Nonlocal Nonlinear Medium with Self-Focusing and Self-Defocusing Quintic Nonlinear Responses. 2. The Propagation of Vortex Beams in Random Mediums. 3. Searching of Individual Vortices in Experimental Data. 4. Vortex Dynamics in Complex Fluids. 5. Vortex Analysis and Fluid Transport in Time-Dependent Flows. 6. Relaxation Dynamics of Point Vortices. 7. Vortex Dynamics in the Wake of Planetary Ionospheres. 8. Vortex Dynamics in Dusty Plasma Flow Past a Dust Void. 9. Wingtip Vortices of a Biomimetic Micro Air Vehicle.
Sommario/riassunto	This book discusses vortex dynamics theory from physics, mathematics, and engineering perspectives. It includes nine chapters that cover a variety of research results related to vortex dynamics including nonlinear optics, fluid dynamics, and plasma physics.