



Introduction to Vortex Filaments in Equilibrium (Hardback)

By Timothy D. Andersen, Chjan C. Lim

Springer-Verlag New York Inc., United States, 2014. Hardback. Book Condition: New. 2014 ed.. 236 x 163 mm. Language: English . Brand New Book. This book presents fundamental concepts and seminal results to the study of vortex filaments in equilibrium. It also presents new discoveries in quasi-2D vortex structures with applications to geophysical fluid dynamics and magnetohydrodynamics in plasmas. It fills a gap in the vortex statistics literature by simplifying the mathematical introduction to this complex topic, covering numerical methods, and exploring a wide range of applications with numerous examples. The authors have produced an introduction that is clear and easy to read, leading the reader step-by-step into this topical area. Alongside the theoretical concepts and mathematical formulations, interesting applications are discussed. This combination makes the text useful for students and researchers in mathematics and physics.

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