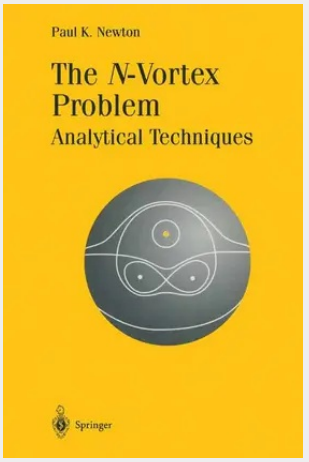
Newton

The N-Vortex Problem

Analytical Techniques

This text is an introduction to current research on the N- vortex problem of fluid mechanics. It describes the Hamiltonian aspects of vortex dynamics as an entry point into the rather large literature on the topic, with exercises at the end of each chapter.

For applied mathematicians, physicists, and engineers interested in either nonlinear dynamics or classical mechanics and fluid dynamics. Describes the Hamiltonian aspects of vortex dynamics so that it may serve as an entry into the large literature on integrable and non-integrable vortex problems.



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