



Vortex Methods: Theory and Practice (Paperback)

By Georges-Henri Cottet, Petros D. Koumoutsakos

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2008.
Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. This book presents and analyses vortex methods as a tool for the direct numerical simulation of incompressible viscous flows. Vortex methods have matured, offering an interesting alternative to finite difference and spectral methods for high-resolution numerical solutions of the Navier-Stokes equations. Research in the numerical analysis aspects of vortex methods has provided a solid mathematical background for understanding the accuracy and stability of the method. At the same time vortex methods retain their appealing physical character that was the motivation for their introduction. Scientists working in the areas of numerical analysis and fluid mechanics will benefit from this book, which may serve both communities as both a reference monograph and a textbook for computational fluid dynamics courses.

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