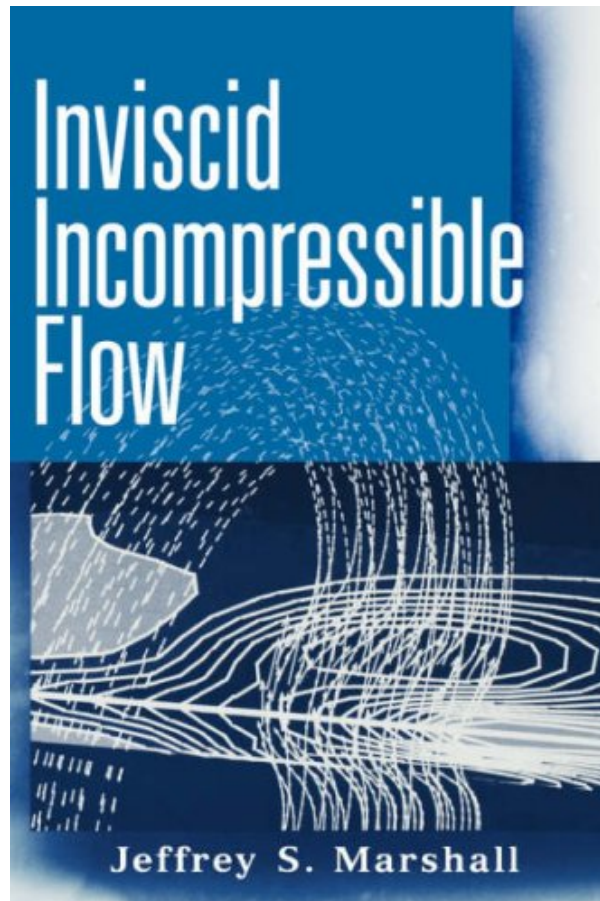
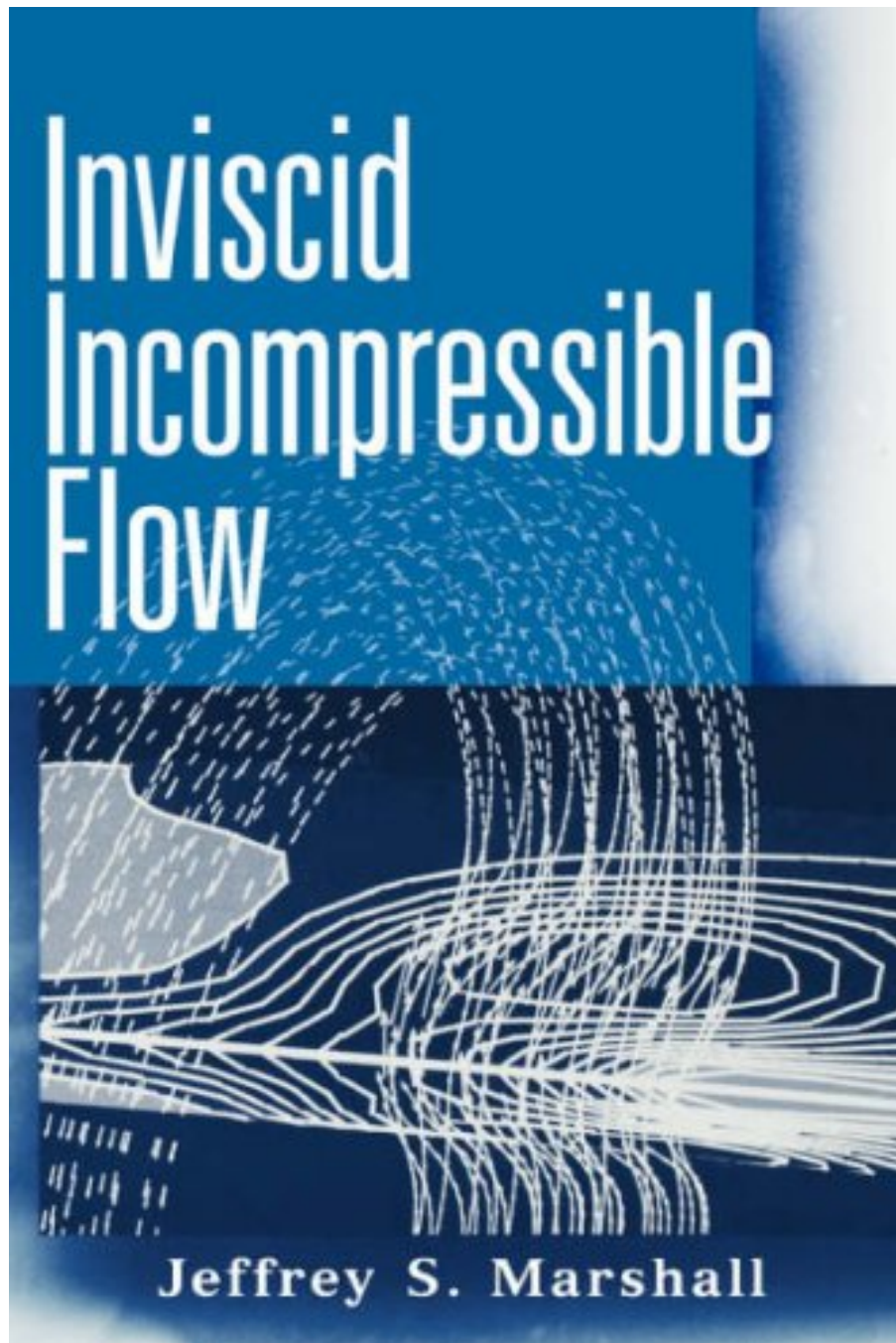


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Review

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From the Back Cover

A comprehensive, modern account of the flow of inviscid incompressible fluids

This one-stop resource for students, instructors, and professionals goes beyond analytical solutions for irrotational fluids to provide practical answers to real-world problems involving complex boundaries. It offers extensive coverage of vorticity transport as well as computational methods for inviscid flows, and it provides a solid foundation for further studies in fluid dynamics.

Inviscid Incompressible Flow supplies a rigorous introduction to the continuum mechanics of fluid flows. It derives vector representation theorems, develops the vorticity transport theorem and related integral invariants, and presents theorems associated with the pressure field. This self-contained sourcebook describes both solution methods unique to two-dimensional flows and methods for axisymmetric and three-dimensional flows, many of which can be applied to two-dimensional flows as a special case. Finally, it examines perturbations of equilibrium solutions and ensuing stability issues.

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- A companion Web site containing subroutines for calculations in the book

- Clear, easy-to-follow presentation

Inviscid Incompressible Flow, the only all-in-one presentation available on this topic, is a first-rate teaching and learning tool for graduate- and senior undergraduate-level courses in inviscid fluid dynamics. It is also an excellent reference for professionals and researchers in engineering, physics, and applied mathematics.

About the Author

JEFFREY S. MARSHALL, PhD, is a professor in the Department of Mechanical Engineering and a research engineer at the Iowa Institute of Hydraulic Research at the University of Iowa, Iowa City.

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- Sales Rank: #3055956 in Books
- Published on: 2001-06-11
- Original language: English
- Number of items: 1
- Dimensions: 9.47" h x .89" w x 6.38" l, 1.48 pounds
- Binding: Hardcover
- 392 pages

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