Theory and Computation of Hydrodynamic Stability (Cambridge Monographs on Mechanics)

By W. O. Criminale, T. L. Jackson, R. D. Joslin

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This treatise covers classical and modern aspects of the fundamental topic of hydrodynamic stability. It considers linear and nonlinear situations, and analyzes temporal and spatial aspects. The authors examine each problem analytically and every chapter ends with an appendix outlining full direct numerical simulation computer code. The text is enriched with many exercises, illustrations and an extensive bibliography and can be used with courses on hydrodynamic stability or as an authoritative reference.

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- Rank: #4097592 in Books
- Brand: Brand: Cambridge University Press
- Published on: 2003-11-24
- Original language: English
- Number of items: 1
- Dimensions: 8.98" h x .98" w x 5.98" l, 1.90 pounds
- Binding: Hardcover
- 464 pages

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