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# Introduction to Hydrodynamic Stability



P. G. DRAZIN

DRAZIN Introduction to Hydrodynamic Stability CAMBRIDGE

Instability of flows and their transition to turbulence are widespread phenomena in engineering and the natural environment, and are important in applied mathematics, atmospheric, biology, geophysics, meteorology, astrophysics and physics as well as engineering. This is a textbook to introduce these phenomena at a level suitable for a graduate course, by studying these mathematically and describing some real time observations and laboratory experiments. The acquisition of instabilities is explained, with many figures, and an emphasis is given to real and imaginary parts. The relation of these to transfer is discussed at length. Many worked examples and exercises for students illustrate the ideas of the text. Readers are assumed to be fluent in linear algebra, advanced calculus, elementary theory of ordinary differential equations, complex variables and the elements of fluid mechanics. The text is aimed at graduate students but will also be very useful to specialists in other fields.

**Peter Drazin** (1934–2002) was Professor of Applied Mathematics at the University of Bristol (1961–1976) and Professor of Mathematical Sciences at the University of Bath (1976–2002). He was the author of many books including *Hydrodynamic Stability* which he co-authored with W. K. Reid (Cambridge University Press, 1981).

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# Introduction To Hydrodynamic Stability Solution Manual

**JG Myers**



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