

Basic Fluid Mechanics (Third Edition)

David C. Wilcox



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Basic Fluid Mechanicsis an antidote for oversimplified textbooks. If you would like to break away from the large publishers' approach that many professors describe as "fluid mechanics for the masses," "excessive fluff" and "delaying the appearance of PDE's to Chapter 12," this may be the book you have been looking for! As with the first and second editions, this book rejects the modern, watered-down approach that (in at least one modern text) apologizes for the need to use concepts from freshman calculus and (in most cases) emphasizes everything but the basics of fluid motion. Written in an easy-to-read style that students have praised virtually everywhere the book has been used, there is no need to have artificial devices such as onesentence descriptions on each page to help orient the reader. The worked examples have been integrated into the presentation in a format which insures that the basic concepts are easy to locate. That is, the major flaws of the book's major competitors, all of which are suitable for only a one-semester course, do not plague Basic Fluid Mechanics. Basic Fluid Mechanics is an exciting and innovative junior/senior level text that provides an introduction to the basic concepts of fluid mechanics. It has also been used as an introductory text for graduate students with no prior knowledge of fluid mechanics. The book recognizes the fact that the modern fluid dynamicist has three research tools at his or her disposal, namely, analytical methods, experimentation and Computational Fluid Dynamics (CFD). It makes full recognition of this triad of approaches that constitute today's unified theory of fluid mechanics.

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