



Mechanics of Fluids 4th International Edition

Merle C. Potter, David C. Wiggert

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Key features introductory material (chapter 1-9) has been carefully selected to introduce students to all the fundamental areas of fluid mechanics. Important concepts are all illustrated by detailed, worked-out examples. Numerous homework problems, many having multiple parts, provide the student with ample opportunity to gain experience solving problems of various levels of difficulty. Design-type problems are included in several chapters. Fe/eit exam type problems are included in the appropriate chapters, noted by the use of an exam icon. The book is written emphasizing si units, however, all properties and dimensional constants are given in english units also. Advanced mathematics, such as vector and tensor calculus and solutions to partial differential equations, is kept at a minimum so students are better able to follow the conversion of concepts into mathematical expressions. About the book: mechanics of fluids: 4th edition (with dvd) mechanics of fluids presents fluid mechanics in a manner that helps students gain both an understanding of, and an ability to analyze the important phenomena encountered by practicing engineers. The authors succeed in this through the use of several pedagogical tools that help students visualize the many difficult-to-understand phenomena of fluid mechanics. Explanations are based on basic physical concepts as well as mathematics which are accessible to undergraduate engineering students. This fourth edition includes a multimedia fluid mechanics dvd-rom which harnesses the interactivity of multimedia to improve the teaching and learning of fluid mechanics by illustrating fundamental phenomena and conveying fascinating fluid flows. Contents 1. Basic considerations. 2. Fluid statics. 3. Introduction to fluids in motion. 4. The integral forms of the fundamental laws. 5. The differential forms of the fundamental laws. 6.

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