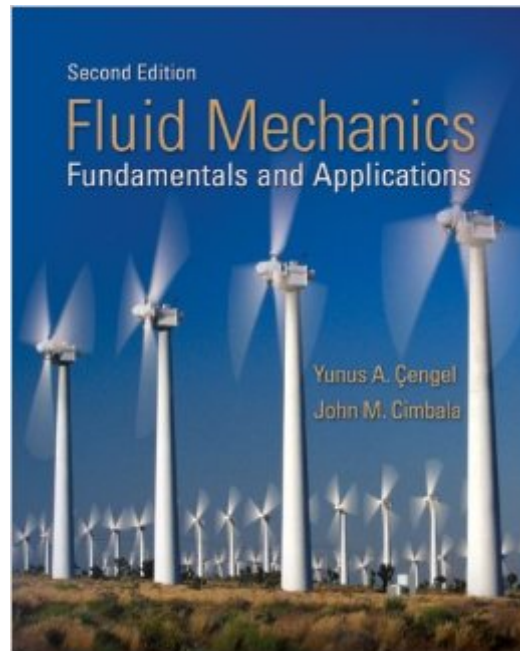


The book was found

Fluid Mechanics With Student Resources DVD



Synopsis

Fluid Mechanics: Fundamentals and Applications, communicates directly with tomorrow's engineers in a simple yet precise manner. The text covers the basic principles and equations of fluid mechanics in the context of numerous and diverse real-world engineering examples. The text helps students develop an intuitive understanding of fluid mechanics by emphasizing the physics, using figures, numerous photographs and visual aids to reinforce the physics. Fluid mechanics is by its very nature a highly visual subject, and students learn more readily by visual stimulation. This text distinguishes itself from others by the way the material is presented - in a progressive order from simple to more difficult, building each chapter upon foundations laid down in previous chapters. In this way, even the traditionally challenging aspects of fluid mechanics can be learned effectively.

Book Information

Hardcover: 992 pages

Publisher: McGraw-Hill Science/Engineering/Math; 2 edition (March 16, 2009)

Language: English

ISBN-10: 0077295463

ISBN-13: 978-0077295462

Product Dimensions: 8.3 x 1.6 x 10.1 inches

Shipping Weight: 4.4 pounds

Average Customer Review: 4.1 out of 5 stars [See all reviews](#) (18 customer reviews)

Best Sellers Rank: #455,304 in Books (See Top 100 in Books) #96 in [Books > Engineering &](#)

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Customer Reviews

[Fengel and Cimbala: Fluid Dynamics I](#) have only read chapter 1. This is an attractive book, but even in the first chapter I have many complaints. Here are the main ones. - I was unable to understand some of the figures on fluid flow. What exactly is being shown in Figure 1-9, 1-11, 1-17, and what is the 'tower' on its side in Figure 1-23 - there are a number of photographs which were made using Schlieren photography. This is a very useful technique, but it is not explained except in the vaguest terms later in the book. - On page 10 is stated "There is no fluid with zero viscosity ...". This is incorrect. The superfluid phase of liquid helium has no viscosity, with many strange consequences. This may not be relevant to the book, but should have been mentioned, perhaps in

a footnote, so that students will be aware of it. - On page 11, the symbol for Mach number is introduced as Ma . Using two characters for a variable is very bad practice. It looks just like the product of M and a . Thus if it appears in equation it would be indistinguishable from mass time acceleration, or something else if M and a had other uses. Since there are not enough letters in the English and Greek alphabets it is normal to use subscripts and superscripts to distinguish different quantities when needed. - on pages 13-14 they talk about one, two and three dimensional flows. Then they tell you that the number of dimensions of a flow depends on the coordinate system used for its description. This is unreal, an artefact. A one-dimensional flow does not suddenly become two-dimensional when you change your coordinate system; it remains one-dimensional.

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