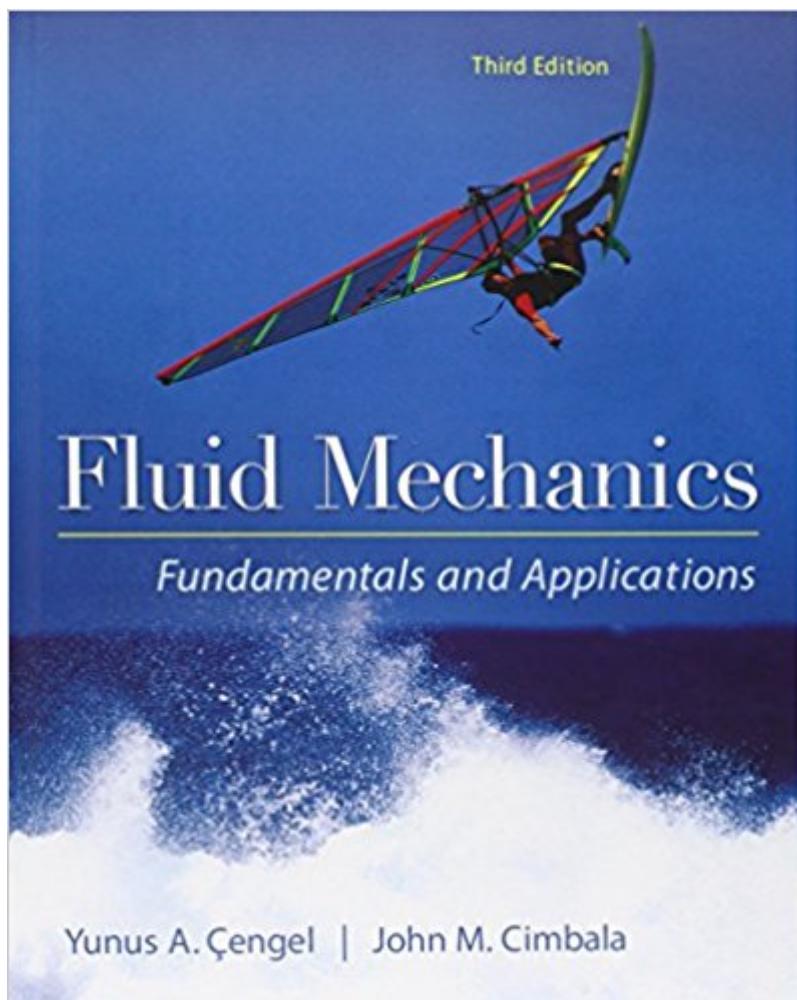


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# Fluid Mechanics Fundamentals And Applications



## **Synopsis**

NOTE: This is an Standalone book and does not include Access code. Cengel and Cimbala's 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. The highly visual approach enhances the learning of Fluid mechanics by students. 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**

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## **Customer Reviews**

I am an aerospace engineering college student, and this book is worth more than its weight in gold. I have had the unfortunate/fortune chance of learning this subject with several comparable books by other authors [Fox, White, Munson, Elger, Kundu, etc.], and while I won't point fingers in labeling something bad or good as the subject can be difficult to grasp for some people (such as myself), each had their strong and weak points in the various aspects of fluid mechanics. Having taken aerodynamics class back then, I found myself often initially deferring to the Cengel & Cimbala book as a great help in course refresher and referencing back key concepts simply because their book

was easier to digest/follow the explanations and most of the examples. However, that book was their 2nd edition. Needing this newer edition for a different class as per syllabus requirement, this updated version biggest improvement is that the text, page formatting, and figures are much richer in color. The 2nd edition had this somewhat monotonous blue theme, but this one looks nicer (easier on the eyes) and will catch and retain your attention in reading it even if the information is nearly the same with various new figures and more examples compared to the older version. Perfect. Almost worth the (forced) upgrade.. If cost is a secondary factor, I recommend this book to anyone taking and learning fluid mechanics their first time.

This book is hands down the most easily understood undergrad book I've read so far. This book was chosen for my Chemical Engineering course, and while I can't testify to what extent it taught Chem-E specific concepts, seeing as this was my first fluids course, I had a firm grasp of every concept in the book we covered (no thanks to my instructor, if you catch my drift). Tons of pictures and helpful diagrams. Believe it or not, I actually WANTED to read this textbook. I ordered mine "used" from TextbookRush Jan/2014 and I'm pretty sure the book was either brand new or the engineering student who previously owned it just used it as a paperweight.

A well thought-out book. Too bad the editor didn't do his job. There are errors present from previous editions and there are new errors, including incorrect provided answers to problems. For the extravagant price these kind of text books demand, you'd think they could fix existing errors, if not prevent new ones.

The book provided a very clear and well defined theory behind each concept. The provided examples were also extremely well done, eliminating any confusing that can occur in poorly worked example problems.

I bought this textbook used. It came in a slightly more than gently used state. The cover and binding were the most damaged pieces. Otherwise the actual pages were fine. As for the book itself, they have plenty of examples and problems to work through. But some of the answers they provide to the problems are wrong.

Although at a lower level (mathematical) than other books with similar approach (like Munson's), it offers intuition and has good examples. It offers the physical explanations to nearly every

mathematical description of a phenomenon, but it does not go the extra mile to delve into some subtle themes, something that would be very useful for a physics major student. But for engineering students it is the ideal book.

Took Fluid Mechanics I with this textbook. I was afraid of the course due to the numerous horror stories I heard about fluids. This textbook made the subject relatively easy and straightforward. It was easy to teach myself stuff using the book. Not that you have any say in what text you will use, but if you are stuck with this one the course won't be so bad. Cengel's thermo book is really good too.

This book was used for a Chemical Engineering fluids class, but it worked out just fine anyway. The examples are great help, and they think they're hilarious with their nerdy jokes and little drawings. I love fluids now! So yea. Great book. The examples are clear and the homework is definitely doable with the step by step instructions.

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