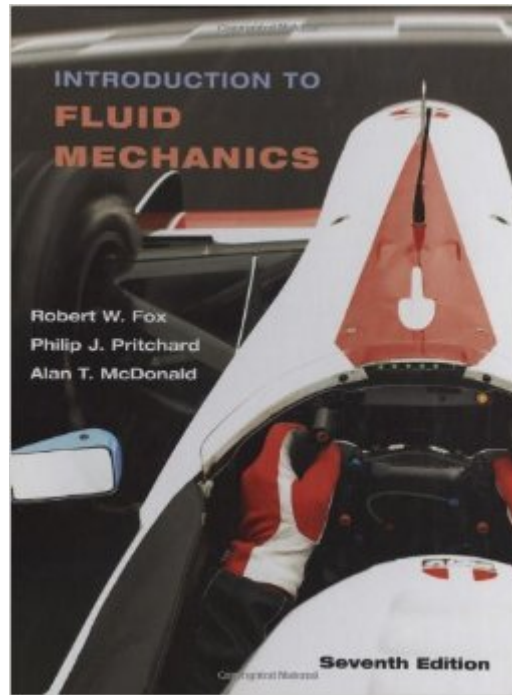


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# Introduction To Fluid Mechanics



## Synopsis

One of the bestselling books in the field, Introduction to Fluid Mechanics continues to provide readers with a balanced and comprehensive approach to mastering critical concepts. The new seventh edition once again incorporates a proven problem-solving methodology that will help them develop an orderly plan to finding the right solution. It starts with basic equations, then clearly states assumptions, and finally, relates results to expected physical behavior. Many of the steps involved in analysis are simplified by using Excel.

## Book Information

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## Customer Reviews

After reading a few chapters from this book and compared it to other Fluid Mech books like Frank M. White's Fluid Mechanics and Fundamental of Fluid Mechanics by Munson, Young & Okiishi, I would say this book doesn't provide enough explanation to the various topics in Fluid Mechanics which the other authors did. If you are the type who prefers to read something lighter, this book will be suitable for you. But for those who prefer to read up & learn more about Fluid Mechanics, Frank White will be a better choice although beginners who are new to Fluid Mech will find White's book a bit hard to understand. Personally, I would say the best Fluid Book I have ever read will be Fundamentals of Fluid Mechanics by Young, Munson & Okiishi. Please refer to the review of that book for more info

I used this book for a fluid mech course and I thought this book is terrible. The derivations of the equations are thorough but that doesn't make up for what this book lacks. The problems are quite difficult since the material covered in the chapters doesn't match what the questions ask. I don't

expect a textbook to entertain me but this one put me to sleep a lot. There are (literally) hundreds of references to video clips demonstrating different topics covered but they weren't put on the included CD. And speaking of the CD, it is completely worthless. Don't even bother wasting your time looking at it since it contains very little useful information. There are a few more detailed explanations of a few of the topics in a few chapters but that is it. There is no real meat there. I gave this book 2 stars only because I did like the thoroughness of the derivations other than that this book is a waste of your time and money. And if one opinion may not count out of a class of 35 about half of us hated the book (it was doubtful the other half had even read it). If you have to use this book, good luck.

I feel that this book is indeed a nice looking book, and also has fairly good content. It is true that a student should have a fairly good grasp of The Calculus and Differential Equations, but most students will already have such knowledge by the time they take this class. I feel it is a positive that the authors did not feel obliged to explain the small mathematical details necessary for each example since to do that would have weighed the book down with unnecessary redundant information. The authors realized that if a student needs to find out the mathematics necessary for an equation, they can reference back to their other textbooks as necessary. I will keep this book on the shelf in my office after I graduate.

I am a student at the University of California with a 4.0 GPA. As a major in Mechanical Engineering, I am obligated to take at least one course in Fluid Mechanics. From my perspective this book is a worthless tool. The derivations are hard to follow, and the problems do not reflect the material covered in the text, making them quite difficult to solve. Realizing that this is a difficult subject to master, by use of this book it becomes even harder. Just about the best feature of this book is the "neat" picture on the cover. **IF YOU ARE AN INSTRUCTOR, PLEASE, FOR THE SAKE OF YOUR STUDENTS, DO NOT USE THIS TEXT.** It's one thing for an experienced person in the discipline of Fluid Mechanics to follow this text, but from a first time student's seat, this book is among the **WORST** books I've ever had to use. Please take my warning seriously. EDIT (2003): I still maintain that this was one of the worst books in my entire college career. All the above reviews that criticized ME as opposed to my review or the text (i.e. "4.0 boy", "poor foundation in math" [right, those make sense together]) have background in the subject, whereas this text is meant for a first course. In retrospect, I can use it as a reference, but at the time it was supposed to teach me, it was complete garbage. Right now I have 8 "helpful" reviews, and if those 8 were prof's or instructors, then that's about 480 students that are better off. I even got an email from one that said he wouldn't use the

text, and asked if I had seen a better one. I suspect a couple of the "not helpful" reviews are from my fans above, who may or may not be affiliated with the author or publisher.

This book goes a long way to describe the most simple concepts in a confusing way. I ended up learning from a different text book. If your university uses this book, it is probably a good idea to take this course somewhere else. This book assumes that you have already taken dynamics and thermodynamics! The problems are not clearly written, so trying to understand the question is often more time consuming than finding the solution.

I found hard time in finding good books to understand fluid. However, Fox and McDonald manage to explain fluid in more student-approached method. A lot of worked-out examples will make the concepts easy to digest. Another good books : Engineering Fluid Mechanics by Roberson and Crowe Books to avoid : Fluid Mechanics by Streeter

This book is great for reviewing the material and for future reference. But not at all great for learning Fluid Mechanics. It goes into very rigorous mathematical developments and derivations of the governing equations, which is all well and good except the book doesn't tell you how to actually use the equations! For example, the Reynold's Transport theorem is presented in its most general form, but it is rarely used like that until you start taking graduate courses on the subject. The book also rarely talks about the actual fluid mechanics; it is more concerned with deriving the equations. This seventh edition is almost identical to the sixth edition as well, which is significantly cheaper. If you have trouble understanding the mathematical development and/or want to get a physical sense for fluids behavior before blindly plugging in equations like the book expects you to, check out Cengel's Fluid Mechanics book.

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