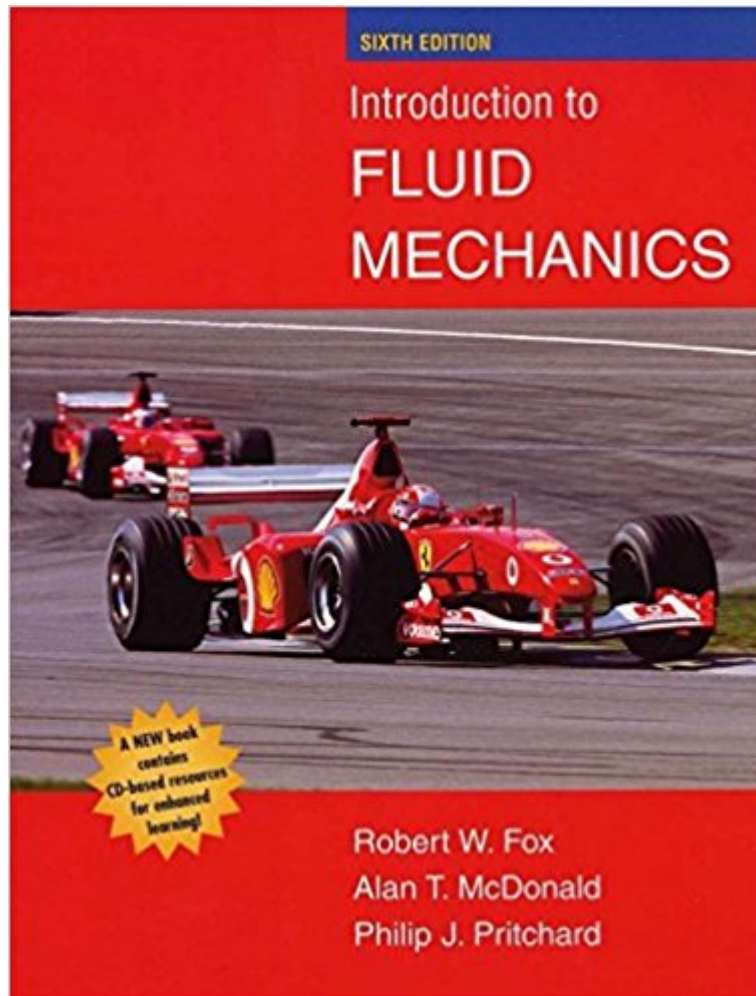




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# Introduction To Fluid Mechanics



## Synopsis

Fox & McDonald provide a balanced and comprehensive approach to fluid mechanics that arms readers with proven problem-solving methodology! The authors show how to develop an orderly plan to solve problems: starting from basic equations, then clearly stating assumptions, and finally, relating results to expected physical behavior. This new edition simplifies many of the steps involved in analysis by using the computer application Excel. Over 100 detailed example problems illustrate important fluid mechanics concepts: Approximately 1300 end-of-chapter problems are arranged by difficulty level and include many problems that are designed to be solved using Excel. The CD for the book includes: A Brief Review of Microsoft Excel and numerous Excel files for the example problems and for use in solving problems. The new edition includes an expanded discussion of pipe networks, and a new section on oblique shocks and expansion waves.

## Book Information

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## Customer Reviews

A proven problem-solving approach in Fluid Mechanics now integrated with Excel! Fox, McDonald & Pritchard provide a balanced approach to fluid mechanics that arms students with a proven problem-solving methodology. Students will learn to adopt an orderly approach to solving problems. Providing a fresh look, new co-author Philip J. Pritchard, of Manhattan College, has clarified and improved descriptions and explanations throughout the book. The text emphasizes the control volume concept to provide a practical problem solving approach that is theoretically inclusive. 116 detailed example problems illustrate important concepts; each problem is solved in complete detail to demonstrate good solution procedure. 45 example problems have associated Excel/workbooks

that enable students to perform “What if?” scenarios when studying the examples; many of the workbooks can be modified to solve end-of-chapter problems. Students can use Excel to vary problems parameters to gain insight into the behavior of complex solutions. 1315 end-of-chapter problems, with varying degrees of difficulty, provide the opportunity to practice building problem-solving skills. The CD accompanying the text includes: special and/or advanced topic sections for further study that are not include in the printed text, 45 example problem workbooks in Excel, and “A Brief Review of Microsoft Excel” (an introduction to Excel’s basic features, and such advanced features as Solver and macros).

Robert W. Fox, Purdue University Alan T. McDonald, Purdue University --This text refers to an out of print or unavailable edition of this title.

Good introductory text into fluid mechanics for undergraduate students. Lots of example problems in the text, good mixture of sample problems and the author does a good job explaining the topics.

I feel the pain of many of the students who gave this book a poor rating. Although I don't particularly find the derivations very difficult to follow, I must agree that the examples and the depth of explanations of concepts that were given in this book is a far cry from the difficulty of the homework problems. This presented two problems for me as a student struggling to learn INTRODUCTORY fluid mechanics: 1) Fluid mechanics is a difficult subject and the conceptual explanations along with the fairly easy example problems lulled me into a false sense of security that I had grasped the concepts and how to do the problems...until midterms came. I ended up having to study off of two other fluid mechanics books I had found in the school library. 2) The problems given at the end of the chapter were WAY more difficult than the example problems. Many of my classmates couldn't figure out the answers and ended up looking for the solutions manual online... we did not learn much. I think the problems should build up in difficulty as you go. I feel that if they did structure the problems in the manner I had just suggested, students would get to slowly develop conceptual understanding as well as practice with problem-solving in fluid mechanics. If you are a professor, PLEASE PLEASE do not use this book to teach introductory fluid mechanics! I find that many customers who had given this book a good review were those who had used it as a reference or review material... basically those who had already learned fluid mechanics. I'm a student from one of the University of California schools and our professors do not get to choose the book of their choice. If you are one of those professors stuck teaching with this book, please at least TEACH what this book lacks

(conceptual depth), assign do-able homework problems from a different text, provide higher-difficulty examples, or refer students to additional resources where they can actually learn fluid mechanics!

This book is actually fairly good. There is not a great conversion factor chart in either the back or the front of the book so I copied one from my Thermodynamics book and taped it in the back and it works just fine. Every chapter has a detailed example for every type of problem and goes through the process of solving it step by step which was very helpful. All of the main need to know equations were highlighted in blue, making it easy to find exactly what you need to know at any time.

I needed this book for my Fluid Mechanics class. Although this is the SI (International) version, it is exactly the same as the US printed book. The only difference is that it is paperback (making it more cheaper), and the tinting of pictures and examples. The US one is blue, while the SI one is green. All the chapters and homework problems are the same. College kids, feel safe knowing that you can save money by buying this version!

I bought this book used and was expecting the cover to be a little damaged like they said it would be, but upon receiving it the book was just in a sealed plastic bag with no packaging of any kind and the books bind at the top had been smashed down and ripped. Not a big deal but they should take more care in shipping their products, even if it is only a short distance. Otherwise book is clean.

Its a textbook, if you need it you need it. This is the 7th edition of the book with both SI and American units in it if that is what you need.

This text is a great text and the book had a few pages damaged by water in the back, but overall its in great condition. It was a good buy.

I am only half way through the book so far, however I have noticed from other reviews that many students do not like this book. In my opinion, I find the book to be very enjoyable to both read and study from. It provides concise derivations for Reynolds Transport Theorem, Bernoulli's Equation, Navier-Stokes Equations and others that are necessary to understand fluid mechanics. The example problems are useful and well laid out. What some students may not like is that the book tends to take a more long winded approach to solving certain problems. However that approach is

the proper one when solving more complex fluid mechanic problems.

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