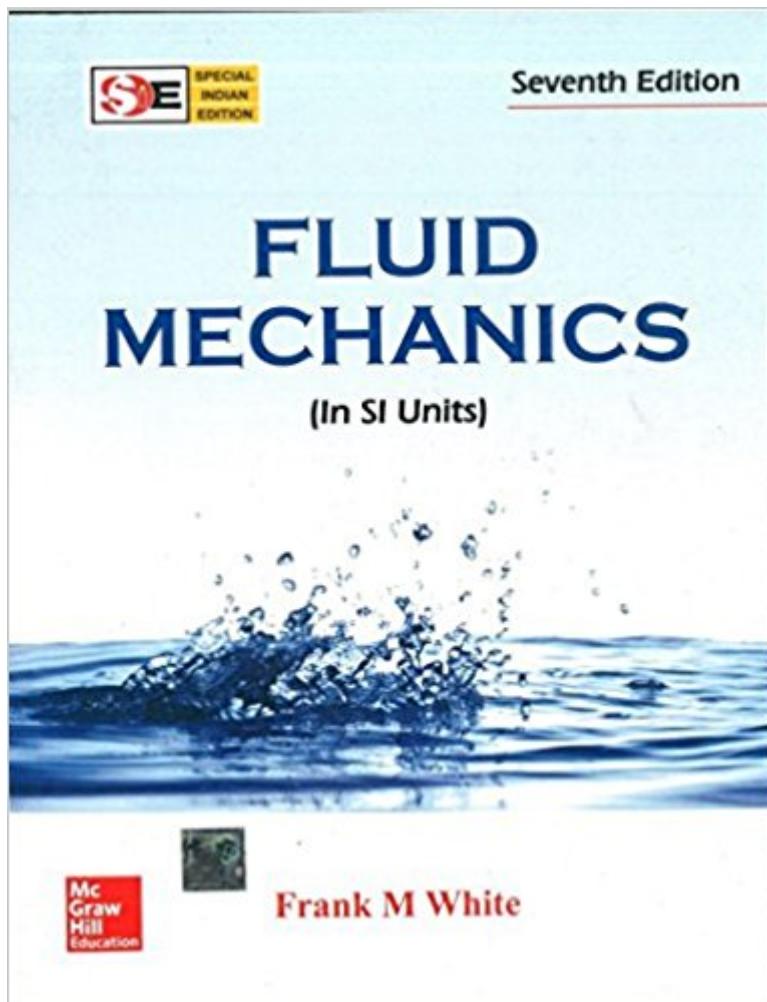


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# Fluid Mechanics (In SI Units)



## Synopsis

The book provides a well-balanced coverage of physical concepts, mathematical operations and practical demonstrations within the scope of Fluid Mechanics. The text provides a highly intuitive and practical understanding of the topics by excellent progression from physical concepts to engineering applications. The concepts have been presented in an unambiguous, precise and to the point manner. Key Features: Architecture, Programming, Interfacing of Microprocessors and Microcontrollers explained in lucid language Hands-on approach through applications such as Traffic Control, Keyboard Interfacing, Stepper Motor Control, Seven-Segment Display, Control of Firing Circuit of a Thyristor Table Of Contents: 1. Introduction 2. Pressure Distribution in a Fluid 3. Integral Relations for a Control Volume 4. Differential Relation for Fluid Flow 5. Dimensional Analysis and Similarity 6. Viscous Flow in Ducts 7. Flow Past Immersed Bodies 8. Potential Flow and Computational Fluid Dynamics 9. Compressible Flow 10. Open-Channel Flow 11. Turbomachinery Appendix A: Physical Properties of Fluids Appendix B: Compressible Flow Tables Appendix C: Conversion Factors Appendix D: Equations of Motion in Cylindrical Coordinates Answers to Selected Problems Index

## Book Information

Paperback: 896 pages

Publisher: Tata Mcgraw Hill Education; 7 edition (March 16, 2011)

Language: English

ISBN-10: 0071333126

ISBN-13: 978-0071333122

Product Dimensions: 18.6 x 3.3 x 24.2 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 3.3 out of 5 stars 35 customer reviews

Best Sellers Rank: #489,782 in Books (See Top 100 in Books) #134 in Books > Engineering & Transportation > Engineering > Chemical > Fluid Dynamics #236 in Books > Science & Math > Physics > Dynamics > Thermodynamics #344 in Books > Science & Math > Physics > Mechanics

## Customer Reviews

Frank M White is Professor Emeritus of Mechanical and Ocean Engineering at the University of Rhode Island. He studied at Georgia Tech and M.I.T. In 1966 he helped found, at URI, the first department of ocean engineering in the country. Known primarily as a teacher and writer, he has received eight teaching awards and has written four textbooks on fluid mechanics and heat transfer.

From 1979 to 1990 he was editor-in-chief of the ASME Journal of Fluids Engineering and then served from 1991 to 1997 as chairman of the ASME Board of Editors and of the Publications Committee. He is a Fellow of ASME and in 1991 received the ASME Fluids Engineering Award.  
--This text refers to an out of print or unavailable edition of this title.

Overall, this is a solid book for fluid mechanics. I just used it for my first semester fluids class, and both my friends and I enjoyed it! It offers fairly clear explanations, excellent example problems, and is interesting, concise, and offers a lot of clearly illustrated figures, as well as a lot of excellent problems at the end of the chapters. So, why the 4 stars? Well, here are the problems with the book:- Many of the solutions at the end of the book are wrong... which is very frustrating since this is the 7th printing of this textbook.- The book skips a lot of steps sometimes (especially during the Navier-Stokes equations section, which is very frustrating for someone first learning the subject). In general, this book assumes you have a very strong math background (i.e. you can instantly recognize and solve diff. eqs, double/triple integrals)- Not enough examples - the examples White does go through are very basic compared to the problems at the end of the chapters. However, this can be easily fixed by searching for additional practice problems online. All in all, this is a solid book.. it is overall very readable and interesting, assuming you have a strong math background. Just be familiar with some basic first order diff eqs, some linear algebra, and multivariable and you should be fine!

I failed a class with this book. Took it again and got an A. If the book is hard to understand blame the professor not the book. With the proper guidance I found the book to be a very useful tool to help me master Fluids. I did not use the book exclusively. Youtube is a life saver. I gave the book 4 stars because I did need to go to outside resources to better understand some of the material. A few of the chapters are complete mathematical gibberish that can be bypassed with a little common sense. I just put the book down and used Youtube for these chapters. Most of the solutions are on Chegg and that is a big help. I know the new edition is out. A lot of the problems are the same with just a different problem number, so this book is still good to get just for that reason..plus it is a lot cheaper now. A guy in my class had an ancient version of the text and it worked for him.

Frank needs to be a little more clear in his examples and how he states his problems. There is a disconnect between what he knows and what he must think a first time fluids student knows. Sometimes people forget where they come from or perhaps he has never struggled to learn a new

concept. Here is an example that is just irritating: He starts with calling atmospheric pressure P(a) then calls gage pressure P(A)! Why not call it P(g) Frank?! The book is ambiguous thru and thru! God help the person who has a bad fluids teacher with this book!

I used this text book for my college's Fluids I and Fluids II courses. The text wasn't used as heavily in Fluids I, but in Fluids II, this text was our complete source of equations and overall explanation. The text explains the material well, as well as covering much of the content in an example or two. The homework problems are very difficult, but have the answers to all of the even ones so that you can check yourself as you progress. The problems will become harder and more complex as you get through them, but the concepts will become clearer as you solve more and more of the problems. The tables and charts are detailed and give a lot of useful information for solving just about everything in the text. The main disadvantage is that there are equations in the compressible flow portion of the text that were not included because the author expects the CD included to be used to compute the values necessary. Other than that, this is a solid text book.

Great text book. It really helped me get through my fluid dynamics class and I could not have done the final without it. Also it is a great help for other classes. It's full of great content

Good explanations and examples. Many examples are presented in the text some of which can be difficult to follow. Tough subject, but book makes it easier. Solutions are readily found online which allows for infinite practice problems. Not sure how useful this would be after graduation...I would recommend renting unless you plan going into some fluid related field.

You get what you pay for...two months of light usage and is already falling apart! The content is good.

As stated in the for sale ad....good condition

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