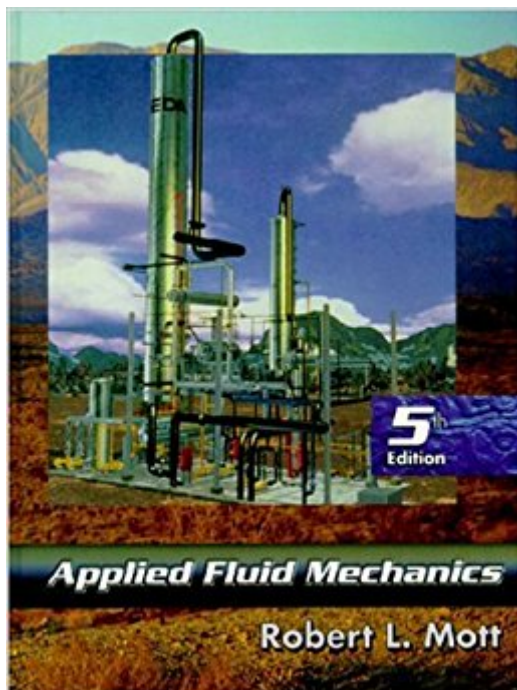


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# Applied Fluid Mechanics (5th Edition)



## Synopsis

This popular applications-oriented approach to engineering technology fluid mechanics covers all of the basic principles of fluid mechanics--both statics and dynamics--in a clear, practical presentation that ties theory directly to real devices and systems used in chemical process industries, manufacturing, plant engineering, waste water handling and product design. "The Big Picture" sections--focus on real products or systems where the principles of fluid mechanics are used, discuss the kind of fluid used, what the fluid is used for, how it behaves, what conditions exist in the system that affect its behavior, and the relationships between those systems. Features a "programmed approach" to completely worked, complex, real-world example problems; spreadsheets; a unique presentation of the Moody diagram; highlighted major formulae and definitions; and an extensive set of appendix tables. The Nature of Fluids. Viscosity of Fluids. Pressure Measurement. Forces on Submerged Plane and Curved Areas. Buoyancy and Stability. Flow of Fluids and Bernoulli's Equation. General Energy. Reynolds Number, Laminar Flow, and Turbulent Flow. Energy Losses Due to Friction. Minor Losses. Series Pipe Line Systems. Parallel Pipe Line Systems. Pump Selection and Application. Open Channel Flow. Flow Measurement. Forces Due to Fluids in Motion. Drag and Lift. Fans, Blowers, Compressors. Flow of Gases. Flow of Air in Ducts. For Mechanical, Manufacturing, and Industrial Engineers interested in Fluid Mechanics, Hydraulics, or Fluid Power.

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## Customer Reviews

With a wealth of updated coverage and a new two-color format that makes information even more interesting and accessible---here is the new Fourth Edition of the most-popular engineering technology fluid mechanics text. Here are all of the basic principles of fluid mechanics, both statics and dynamics, in a clear, practical presentation that ties theory directly to real devices and systems used in chemical process industries, manufacturing, plant engineering, waste water handling and product design. This edition incorporates the latest data on viscosity, introduces the use of the Swamee- Jain approach, to computing friction factors, and illustrates the latest pressure and flow devices available on the market. A unique presentation of the Moody diagram makes this complex diagram easy to use! A new graphic icon in the margins that highlights major formulae and definitions, and the use of a second color throughout, complete the revision. This text is well known for developing topics in a way students can easily follow...building one upon the other. Concepts are reinforced by a wealth of carefully-chosen practice problems-over 1,000 in all--and students learn fundamental principles through hands-on problem-solving, just as they will use them in the field.

--This text refers to an out of print or unavailable edition of this title.

This popular applications-oriented approach to engineering technology fluid mechanics covers all of the basic principles of fluid mechanics--both statics and dynamics--in a clear, practical presentation that ties theory directly to real devices and systems used in chemical process industries, manufacturing, plant engineering, waste water handling and product design. "The Big Picture" sections--focus on real products or systems where the principles of fluid mechanics are used, discuss the kind of fluid used, what the fluid is used for, how it behaves, what conditions exist in the system that affect its behavior, and the relationships between those systems. Features a "programmed approach" to completely worked, complex, real-world example problems; spreadsheets; a unique presentation of the Moody diagram; highlighted major formulae and definitions; and an extensive set of appendix tables. The Nature of Fluids. Viscosity of Fluids. Pressure Measurement. Forces on Submerged Plane and Curved Areas. Buoyancy and Stability. Flow of Fluids and Bernoulli's Equation. General Energy. Reynolds Number, Laminar Flow, and Turbulent Flow. Energy Losses Due to Friction. Minor Losses. Series Pipe Line Systems. Parallel Pipe Line Systems. Pump Selection and Application. Open Channel Flow. Flow Measurement. Forces Due to Fluids in Motion. Drag and Lift. Fans, Blowers, Compressors. Flow of Gases. Flow of Air in Ducts. For Mechanical, Manufacturing, and Industrial Engineers interested in Fluid Mechanics, Hydraulics, or Fluid Power.

I ordered this book from New Paradigm Books thinking it was the hard cover displayed in the photo, however it was not. Instead I received the Global Edition, which is considered to be the same book just with a different cover. This is NOT the case. I looked up some of the practice problems from the hard cover, non-global edition displayed in the photo, to check if they matched up with the Global Edition that I received; I need this book for a class and imagine that the homework problems will be a main area of focus. The problems I randomly picked, which were throughout the chapters, were mostly the same, but NOT all of them matched up. Many of the units, i.e. velocity speeds and lengths, were different between the problems in the two books. Because of this experience, I am warning those who purchase this book to double check if they are ordering the hard cover or the soft cover Global Edition. The Global Edition does seem to explain things well and the examples given are step-by-step, which is nice. The diagrams and conversion factors provided also help clarify a lot of information. I gave this review 3 stars because shipping was fast (about 6 days when it was projected to be about 2 weeks) and the book was in good condition. Additionally, this is not a bad book based on my skimming through it, but if you require the hard cover for a class, the Global Edition may not work for you, depending on your professor and course objectives. Please be wary so you don't have to exchange the book as I am going to.

Beware, not the same as the english edition. Language is fine, just problems are different.

great

This book is awesome!!! Mott really knows how to write a practical and usable book. Even if you've never taken a class on Fluid Mechanics, you can pick up this book, read it on your own, and become very proficient in designing piping and fluid systems. The book is very well written for the novice undergraduate student as well as for the working engineer; it's plainly written, to the point, and includes exactly what you need to know to understand the material. The author really has an understanding of the scope needed for a practical/applied text.

good

This is the good book, it has the same content as an American edition. Some data of tasks differ from the original book, but it is not big deal. Thanks.

Great

Very resourceful

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