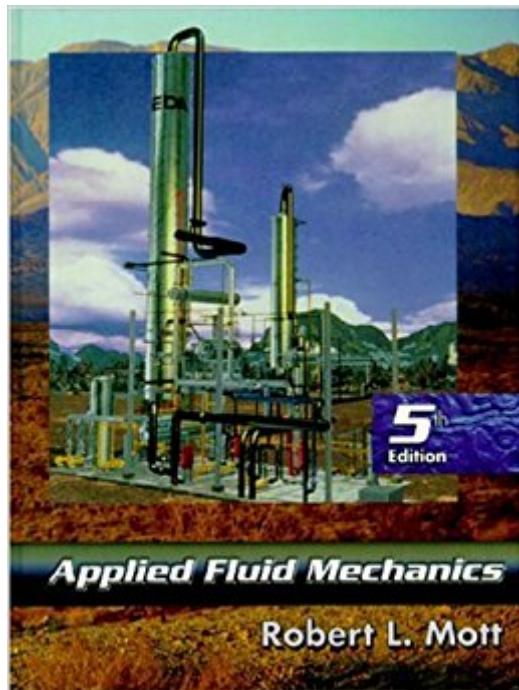


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Applied Fluid Mechanics (5th Edition)



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.

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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

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Great

Very resourceful

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