DESCRIPTION

Fox & McDonald's *Introduction to Fluid Mechanics 9th Edition* has been one of the most widely adopted textbooks in the field. This highly-regarded text continues to provide readers with a balanced and comprehensive approach to mastering critical concepts, incorporating a proven problem-solving methodology that helps readers develop an orderly plan to finding the right solution and relating results to expected physical behavior. The ninth edition features a wealth of example problems integrated throughout the text as well as a variety of new end of chapter problems.

ABOUT THE AUTHOR

Philip J. Pritchard and John W. Mitchell are the authors of Fox and McDonald's Introduction to Fluid Mechanics, 9th Edition, published by Wiley.
NEW TO EDITION

• Real-World Case Studies: A new case study begins each chapter, providing students with motivation and demonstrating how fluid mechanics concepts are applied to solve real-world problems.

• Restructured and Updated Chapters: Including chapters related to Internal Incompressible Viscous Flow, Flow Measurement, Compressible Flow

• Chapters 12 and 13 of the previous edition have been combined into one comprehensive chapter on Compressible Fluids

FEATURES

• This text is well regarded as an undergraduate textbook for its comprehensive treatment of all the main areas of fluid mechanics, as well as its level of presentation.

• Provides a proven, consistent problem-solving methodology: A consistent problem methodology is demonstrated in every example, demonstrating best practices for students.

• Includes over 100 detailed example problems illustrate important fluid mechanics concepts and incorporate problem-solving techniques that allow students to see the advantages of using a systematic procedure.

• More than 1,700 end-of-chapter problems with varying degrees of difficulty give instructors many options when creating assignments.

• Integration with Excel®: The problem-solving approach is integrated with Excel so instructors can focus more class time on fundamental concepts. 51 Example Excel® workbooks are available to present a variety of fluid mechanics phenomena, especially the effects produced when varying input parameters.
• **CFD**: The section on basic concepts of computational fluid dynamics in Chapter 5 now includes material on using the spreadsheet for numerical analysis of simple 1D and 2D flows and includes an introduction to the Euler method.

• Extensive explanations of theoretical derivations give instructors the choice to either review theory in class or assign it as homework so that lecture time can be more flexible.

For additional product details, please visit https://www.wiley.com/en-us