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Fundamentals of Chemical Reaction Engineering - Mark E. Davis 2013-05-27

Appropriate for a one-semester undergraduate or first-year graduate course, this text introduces the quantitative treatment of chemical reaction engineering. It covers both homogeneous and heterogeneous reacting systems and examines chemical reaction engineering as well as chemical reactor engineering. Each chapter contains numerous worked-out problems and real-world vignettes involving commercial applications, a feature widely praised by reviewers and teachers. 2003 edition.

Thermodynamics - Yunus A. Çengel 2011

Accompanying DVD-ROM contains the Limited Academic Version of EES (Engineering Equation Solver) software with scripted solutions to selected text problems.

Introduction to Electrodynamics - David J. Griffiths 2017-06-29

This is a re-issued and affordable printing of the widely used undergraduate electrodynamics textbook.

Engineering Thermodynamics - R. K. Rajput 2010

Mechanical Engineering

EBOOK: Fluid Mechanics Fundamentals and Applications (SI units) - Yunus Cengel 2013-10-16

Fluid Mechanics: Fundamentals and Applications is written for the first fluid mechanics course for undergraduate engineering students, with sufficient material for a two-course sequence. This Third Edition in SI Units has the same objectives and goals as previous editions: Communicates directly with tomorrow's engineers in a simple yet precise manner Covers the basic principles and equations of fluid mechanics in the context of numerous and diverse real-world engineering examples and applications Helps students develop an intuitive understanding of fluid mechanics by emphasizing the physical underpinning of processes and by utilizing numerous informative figures, photographs, and other visual aids to reinforce the basic concepts Encourages creative thinking, interest and enthusiasm for fluid mechanics New to this edition All figures and photographs are enhanced by a full color treatment. New photographs for conveying practical real-life applications of materials have been added throughout the book. New Application Spotlights have been added to the end of selected chapters to introduce industrial applications and exciting research projects being conducted by leaders in the field about material presented in the chapter. New sections on Biofluids have been added to Chapters 8 and 9. Addition of Fundamentals of Engineering (FE) exam-type problems to help students prepare for Professional Engineering exams.

Applied Fluid Mechanics - Robert L. Mott 2006

Computer Networks - Larry L. Peterson 2000

Fundamentals of Thermodynamics - Claus Borgnakke 2013-06-27

Now in a new edition, this book continues to set the standard for teaching readers how to be effective problem solvers, emphasizing the authors's signature methodologies that have taught over a half million students worldwide. This new edition provides a student-friendly approach that emphasizes the relevance of thermodynamics principles to some of the most critical issues of today and coming decades, including a wealth of integrated coverage of energy and the environment, biomedical/bioengineering, as well as emerging technologies. Visualization skills are developed and basic principles demonstrated through a complete set of animations that have been interwoven throughout.

Engineering Fluid Mechanics - Donald F. Elger 2020-07-08

Engineering Fluid Mechanics guides students from theory to application, emphasizing critical thinking, problem solving, estimation, and other vital engineering skills. Clear, accessible writing puts the focus on essential concepts, while abundant illustrations, charts, diagrams, and examples illustrate complex topics and highlight the physical reality of fluid dynamics applications. Over 1,000 chapter problems provide the "deliberate practice"—with feedback—that leads to material mastery, and discussion of real-world applications provides a frame of reference that enhances student comprehension. The study of fluid mechanics pulls from chemistry, physics, statics, and calculus to describe the behavior of liquid matter; as a strong foundation in these concepts is essential across a variety of engineering fields, this text likewise pulls from civil engineering, mechanical engineering, chemical engineering, and more to provide a broadly relevant, immediately practicable knowledge base. Written by a team of educators who are also practicing engineers, this book merges effective pedagogy with professional perspective to help today's students become tomorrow's skillful engineers.

Basic Engineering Thermodynamics - Raynor Joel 1997-09-01

Heat Transfer - Yunus A. Çengel 2002-10

CD-ROM contains: the limited academic version of Engineering equation solver(EES) with homework problems.

Engineering and Chemical Thermodynamics - Milo D. Koretsky 2012-12-17

Chemical engineers face the challenge of learning the difficult concept and application of entropy and the 2nd Law of Thermodynamics. By following a visual approach and offering qualitative discussions of the role of molecular

interactions, Koretsky helps them understand and visualize thermodynamics. Highlighted examples show how the material is applied in the real world. Expanded coverage includes biological content and examples, the Equation of State approach for both liquid and vapor phases in VLE, and the practical side of the 2nd Law. Engineers will then be able to use this resource as the basis for more advanced concepts.

EBOOK: Fundamentals of Thermal-Fluid Sciences (SI units) - Yunus Cengel 2012-01-16
THE FOURTH EDITION IN SI UNITS of Fundamentals of Thermal-Fluid Sciences presents a balanced coverage of thermodynamics, fluid mechanics, and heat transfer packaged in a manner suitable for use in introductory thermal sciences courses. By emphasizing the physics and underlying physical phenomena involved, the text gives students practical examples that allow development of an understanding of the theoretical underpinnings of thermal sciences. All the popular features of the previous edition are retained in this edition while new ones are added. THIS EDITION FEATURES: A New Chapter on Power and Refrigeration Cycles The new Chapter 9 exposes students to the foundations of power generation and refrigeration in a well-ordered and compact manner. An Early Introduction to the First Law of Thermodynamics (Chapter 3) This chapter establishes a general understanding of energy, mechanisms of energy transfer, and the concept of energy balance, thermo-economics, and conversion efficiency. Learning Objectives Each chapter begins with an overview of the material to be covered and chapter-specific learning objectives to introduce the material and to set goals. Developing Physical Intuition A special effort is made to help students develop an intuitive feel for underlying physical mechanisms of natural phenomena and to gain a mastery of solving practical problems that an engineer is likely to face in the real world. New Problems A large number of problems in the text are modified and many problems are replaced by new ones. Some of the solved examples are also replaced by new ones. Upgraded Artwork Much of the line artwork in the text is upgraded to figures that appear more three-dimensional and realistic. MEDIA RESOURCES: Limited Academic Version of EES with selected text solutions packaged with the text on the Student DVD. The Online Learning Center (www.mheducation.asia/olc/cengelFTFS4e) offers online resources for instructors including PowerPoint® lecture slides, and complete solutions to homework problems. McGraw-Hill's Complete Online Solutions Manual Organization System (<http://cosmos.mhhe.com/>) allows instructors to streamline the creation of assignments, quizzes, and tests by using problems and solutions from the textbook, as well as their own custom material.

Thermodynamics - Yunus A. Çengel 2018

Accompanying DVD-ROM contains the Limited Academic Version of EES (Engineering Equation Solver) software with scripted solutions to selected text problems.

Design and Optimization of Thermal Systems, Third Edition - Yogesh Jaluria 2019-09-06

Design and Optimization of Thermal Systems, Third Edition: with MATLAB®

Applications provides systematic and efficient approaches to the design of thermal systems, which are of interest in a wide range of applications. It presents basic concepts and procedures for conceptual design, problem formulation, modeling, simulation, design evaluation, achieving feasible design, and optimization. Emphasizing modeling and simulation, with experimentation for physical insight and model validation, the third edition covers the areas of material selection, manufacturability, economic aspects, sensitivity, genetic and gradient search methods, knowledge-based design methodology, uncertainty, and other aspects that arise in practical situations. This edition features many new and revised examples

and problems from diverse application areas and more extensive coverage of analysis and simulation with MATLAB®.

Engineering Thermodynamics - M. David Burghardt 1999

Here is a comprehensive and comprehensible treatment of engineering thermodynamics from its theoretical foundations to its applications in real situations. The thermodynamics presented will prepare students for later courses in fluid mechanics and heat transfer, and practicing engineers will find the applications helpful in their professional work. The book is appropriate for an introductory undergraduate course in thermodynamics and for a subsequent course in thermodynamic applications. The chapters dealing with steam power plants, internal combustion engines, and HVAC are unmatched. The introductory chapter on turbomachinery is also unique. A thorough development of the second law of thermodynamics is provided in chapters 7-9. The ramifications of the second law receive thorough discussion; the student not only performs calculations, but understands the implications of the calculated results. Computer models created in TK Solver accompany each chapter and are particularly useful in the application areas. The TK Solver files provided with the book can be used as written or modified and merged into models developed to analyze new problems. The book has two particularly important strengths: its readability and the depth of its treatment of applications. The readability will make the content understandable to the average students; the depth in applications will make the book suitable for applied upper-level courses as well.

Introduction to Materials for Advanced Energy Systems - Colin Tong 2018-12-12

This first of its kind text enables today's students to understand current and future energy challenges, to acquire skills for selecting and using materials and manufacturing processes in the design of energy systems, and to develop a cross-functional approach to materials, mechanics, electronics and processes of energy production. While taking economic and regulatory aspects into account, this textbook provides a comprehensive introduction to the range of materials used for advanced energy systems, including fossil, nuclear, solar, bio, wind, geothermal, ocean and hydropower, hydrogen, and nuclear, as well as thermal energy storage and electrochemical storage in fuel cells. A separate chapter is devoted to emerging energy harvesting systems. Integrated coverage includes the application of scientific and engineering principles to materials that enable different types of energy systems. Properties, performance, modeling, fabrication, characterization and application of structural, functional and hybrid materials are described for each energy system. Readers will appreciate the complex relationships among materials selection, optimizing design, and component operating conditions in each energy system. Research and development trends of novel emerging materials for future hybrid energy systems are also considered. Each chapter is basically a self-contained unit, easily enabling instructors to adapt the book for coursework. This textbook is suitable for students in science and engineering who seek to obtain a comprehensive understanding of different energy processes, and how materials enable energy harvesting, conversion, and storage. In setting forth the latest advances and new frontiers of research, the text also serves as a comprehensive reference on energy materials for experienced materials scientists, engineers, and physicists. Includes pedagogical features such as in-depth side bars, worked-out and end-of- chapter exercises, and many references to further reading Provides comprehensive coverage of materials-based solutions for major and emerging energy systems Brings together diverse subject matter by integrating theory with engaging insights

Fox and McDonald's Introduction to Fluid Mechanics - Robert W. Fox 2020-06-30

Through ten editions, Fox and McDonald's Introduction to Fluid Mechanics has helped students understand the physical concepts, basic principles, and analysis methods of fluid mechanics. This market-leading textbook provides a balanced, systematic approach to mastering critical concepts with the proven Fox-McDonald solution methodology. In-depth yet accessible chapters present governing equations, clearly state assumptions, and relate mathematical results to corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the subject. Each comprehensive chapter includes numerous, easy-to-follow examples that illustrate good solution technique and explain challenging points. A broad range of carefully selected topics describe how to apply the governing equations to various problems, and explain physical concepts to enable students to model real-world fluid flow situations. Topics include flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery, and more. To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended problems that encourage students to apply fluid mechanics principles to the design of devices and systems.

Borgnakke's Fundamentals of Thermodynamics - Claus Borgnakke 2017-06-06

This new edition of Borgnakke's Fundamentals of Thermodynamics continues to offer a comprehensive and rigorous treatment of classical thermodynamics, while retaining an engineering perspective. With concise, applications-oriented discussion of topics and self-test problems, this text encourages students to monitor their own learning. This classic text provides a solid foundation for subsequent studies in fields such as fluid mechanics, heat transfer and statistical thermodynamics, and prepares students to effectively apply thermodynamics in the practice of engineering.

Introduction to Heat Transfer - Bengt Sundén 2012

Presenting the basic mechanisms for transfer of heat, this book gives a deeper and more comprehensive view than existing titles on the subject. Derivation and presentation of analytical and empirical methods are provided for calculation of heat transfer rates and temperature fields as well as pressure drop. The book covers thermal conduction, forced and natural laminar and turbulent convective heat transfer, thermal radiation including participating media, condensation, evaporation and heat exchangers. This book is aimed to be used in both undergraduate and graduate courses in heat transfer and thermal engineering. It can successfully be used in R & D work and thermal engineering design in industry and by consultancy firms

Sustainable Transportation Systems Engineering - Francis Vanek 2014-05-06

Engineer and implement sustainable transportation solutions Featuring in-depth coverage of passenger and freight transportation, this comprehensive resource discusses contemporary transportation systems and options for improving their sustainability. The book addresses vehicle and infrastructure design, economics, environmental concerns, energy security, and alternative energy sources and platforms. Worked-out examples, case studies, illustrations, equations, and end-of-chapter problems are also included in this practical guide. Sustainable Transportation Systems Engineering covers: Background on energy security and climate change Systems analysis tools and techniques Individual choices and transportation demand Transportation systems and vehicle design Physical design of transportation infrastructure Congestion mitigation in urban passenger

transportation Role of intelligent transportation systems Public transportation and multimodal solutions Personal mobility and accessibility Intercity passenger transportation Freight transportation function and current trends Freight modal and supply chain management approaches Spatial and geographic aspects of freight transportation Alternative fuels and platforms Electricity and hydrogen as alternative fuels Bioenergy resources and systems Transportation security and planning for extreme weather events PRAISE FOR SUSTAINABLE TRANSPORTATION SYSTEMS ENGINEERING: "This book addresses one of the great challenges of the 21st century - how to transform our resource-intensive passenger and freight transportation system into a set of low-carbon, economically efficient, and socially equitable set of services." -- Dan Sperling, Professor and Director, Institute of Transportation Studies, University of California, Davis, author of Two Billion Cars: Driving toward Sustainability "...provides a rich tool kit for students of sustainable transportation, embracing a systems approach. The authors aptly blend engineering, economics, and environmental impact analysis approaches." -- Susan Shaheen, Professor, Department of Civil and Environmental Engineering, and Co-Director, Transportation Sustainability Research Center, University of California, Berkeley

Problems and Solutions on Thermodynamics and Statistical Mechanics - Yung-kuo Lim 1990

Volume 5.

Thermodynamics - Yunus A. Çengel 2002

The 4th Edition of Çengel & Boles Thermodynamics: An Engineering Approach takes thermodynamics education to the next level through its intuitive and innovative approach. A long-time favorite among students and instructors alike because of its highly engaging, student-oriented conversational writing style, this book is now the most widely adopted thermodynamics text in the U.S. and in the world.

Loose Leaf Version for Thermodynamics: An Engineering Approach 7E - Yunus Çengel 2012-06-22

Thermodynamics Seventh Edition covers the basic principles of thermodynamics while presenting a wealth of real-world engineering examples so students get a feel for how thermodynamics is applied in engineering practice. This text helps students develop an intuitive understanding of thermodynamics by emphasizing the physics and physical arguments. Çengel/Boles explore the various facets of thermodynamics through careful explanations of concepts and its use of numerous practical examples and figures, having students develop necessary skills to bridge the gap between knowledge and the confidence to properly apply knowledge. The media package for this text is extensive, giving users a large variety of supplemental resources to choose from. A Student Resources DVD is packaged with each new copy of the text and contains the popular Engineering Equation Solver (EES) software. McGraw-Hill's new Connect is available to students and instructors. Connect is a powerful, web-based assignment management system that makes creating and grading assignments easy for instructors and learning convenient for students. It saves time and makes learning for students accessible anytime, anywhere. With Connect, instructors can easily manage assignments, grading, progress, and students receive instant feedback from assignments and practice problems.

Paths to Sustainable Energy - Artie Ng 2010-12-30

The world's reliance on existing sources of energy and their associated detrimental impacts on the environment - whether related to poor air or water quality or scarcity, impacts on sensitive ecosystems and forests and land use - have been well documented and articulated over the last three decades. What is

needed by the world is a set of credible energy solutions that would lead us to a balance between economic growth and a sustainable environment. This book provides an open platform to establish and share knowledge developed by scholars, scientists and engineers from all over the world about various viable paths to a future of sustainable energy. It has collected a number of intellectually stimulating articles that address issues ranging from public policy formulation to technological innovations for enhancing the development of sustainable energy systems. It will appeal to stakeholders seeking guidance to pursue the paths to sustainable energy.

Property Tables Booklet to Accompany Thermodynamics - Yunus A. Çengel 2008

Loose Leaf Thermodynamics: An Engineering Approach with Student Resources DVD - Yunus Cengel 2012-08-24

Thermodynamics Seventh Edition covers the basic principles of thermodynamics while presenting a wealth of real-world engineering examples so students get a feel for how thermodynamics is applied in engineering practice. This text helps students develop an intuitive understanding of thermodynamics by emphasizing the physics and physical arguments. Çengel/Boles explore the various facets of thermodynamics through careful explanations of concepts and its use of numerous practical examples and figures, having students develop necessary skills to bridge the gap between knowledge and the confidence to properly apply knowledge. The media package for this text is extensive, giving users a large variety of supplemental resources to choose from. A Student Resources DVD is packaged with each new copy of the text and contains the popular Engineering Equation Solver (EES) software. McGraw-Hill's new Connect is available to students and instructors. Connect is a powerful, web-based assignment management system that makes creating and grading assignments easy for instructors and learning convenient for students. It saves time and makes learning for students accessible anytime, anywhere. With Connect, instructors can easily manage assignments, grading, progress, and students receive instant feedback from assignments and practice problems.

Solutions Manual to Accompany Fundamentals of Engineering Thermodynamics - John R. Howell 1987

Schaum's Outline of Thermodynamics for Engineers, 2ed - Merle Potter 2010-05-23
Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.

Understanding Thermodynamics - H.C. Van Ness 2012-06-08

Clear treatment of systems and first and second laws of thermodynamics features informal language, vivid and lively examples, and fresh perspectives. Excellent supplement for undergraduate science or engineering class.

Fluid and Thermodynamics - Kolumban Hutter 2016-07-18

In this book fluid mechanics and thermodynamics (F&T) are approached as interwoven, not disjoint fields. The book starts by analyzing the creeping motion around spheres at rest: Stokes flows, the Oseen correction and the Lagerstrom-Kaplun expansion theories are presented, as is the homotopy analysis. 3D creeping flows and rapid granular avalanches are treated in the context of the shallow flow approximation, and it is demonstrated that uniqueness and stability deliver a natural transition to turbulence modeling at the zero, first order closure level. The difference-quotient turbulence model (DQTM) closure scheme reveals the importance of the turbulent closure schemes' non-locality effects. Thermodynamics is presented in the form of the first and second laws, and irreversibility is expressed in terms of an entropy balance. Explicit expressions for constitutive postulates are in conformity with the dissipation inequality. Gas dynamics offer a first application of combined F&T. The book is rounded out by a chapter on dimensional analysis, similitude, and physical experiments.

Essential Thermodynamics - Athanassios Z. Panagiotopoulos 2011-01

This textbook covers basic principles of equilibrium behavior for systems of interest to chemical engineering, including elementary microscopic concepts. A strong emphasis is placed on fundamentals: energy conservation in open and closed systems (first law), temperature, entropy and reversibility (second law), fundamental equations, and criteria for equilibrium and stability. These concepts are then applied to the analysis of energy conversion processes, mixing, phase equilibria, and chemical reactions.

PPI FE Review Manual: Rapid Preparation for the Fundamentals of Engineering Exam, 3rd Edition – A Comprehensive Preparation Guide for the FE Exam - Michael R. Lindeburg 2010-10-21

Michael R. Lindeburg PE's FE Review Manual, 3rd Edition FE Review Manual offers a complete review for the FE exam. This book is part of a comprehensive learning management system designed to help you pass the FE exam the first time. This book includes: equations, figures, and tables from the NCEES FE Reference Handbook to familiarize you with the reference you'll have on exam day 13 diagnostic exams to assess your grasp of knowledge areas covered in each chapter concise explanations supported by exam-like example problems, with step-by-step solutions to reinforce the theory and application of fundamental concepts access to a fully customizable study schedule to keep your studies on track a robust index with thousands of terms to facilitate referencing Topics Covered Computational Tools Dynamics, Kinematics, and Vibrations Electricity and Magnetism Engineering Economics Ethics and Professional Practice Fluid Mechanics Heat Transfer Material Properties and Processing Mathematics Materials Measurement, Instrumentation, and Controls Mechanical Design and Analysis Mechanics of Materials Probability and Statistics Statics Thermodynamics

Fundamentals of Chemical Engineering Thermodynamics, SI Edition - Kevin D. Dahm 2014-02-21

A brand new book, FUNDAMENTALS OF CHEMICAL ENGINEERING THERMODYNAMICS makes the abstract subject of chemical engineering thermodynamics more accessible to undergraduate students. The subject is presented through a problem-solving inductive (from specific to general) learning approach, written in a conversational and approachable manner. Suitable for either a one-semester course or two-semester sequence in the subject, this book covers thermodynamics in a complete and mathematically rigorous manner, with an emphasis on solving practical engineering problems. The approach taken stresses problem-solving, and draws from best practice engineering teaching strategies. FUNDAMENTALS OF CHEMICAL

ENGINEERING THERMODYNAMICS uses examples to frame the importance of the material. Each topic begins with a motivational example that is investigated in context to that topic. This framing of the material is helpful to all readers, particularly to global learners who require big picture insights, and hands-on learners who struggle with abstractions. Each worked example is fully annotated with sketches and comments on the thought process behind the solved problems. Common errors are presented and explained. Extensive margin notes add to the book accessibility as well as presenting opportunities for investigation. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Termodinamika - Rany Puspta Dewi

Buku ini berisi tentang bagaimana Sistem Termodinamika itu dan menjelaskan bagaimana hukum-hukumnya. Dikemas dalam bahasa yang lebih mudah dipahami beserta dengan formula-formula yang detail sehingga lebih mudah dalam pengaplikasian dalam pemahaman konsep dasar Termodinamika. Buku ini terdiri dari 9 Bab materi yang terdiri dari (1) Pendahuluan; (2) Sistem Termodinamika; (3) Zat Murni dan Gas Ideal; (4) Hukum Ke-1 Termodinamika; (5) Massa dan Energi Analisis; (6) Hukum Ke-2 Termodinamika dan Entropi; (7) Sistem Tenaga dan Refrigerasi; (8) Fungsi Termodinamika; dan (9) Siklus Tenaga Gas. Semua materi ini merupakan materi yang wajib dipelajari oleh mahasiswa selama satu semester untuk mencapai kompetensi pada Rencana Pembelajaran Semester. Buku ini disusun untuk membantu mahasiswa dalam memahami dan mengkaji konsep dasar termodinamika. Buku ini juga dapat digunakan sebagai acuan bagi dosen yang mengampu mata kuliah Termodinamika.

Heat Storage: A Unique Solution For Energy Systems - Ibrahim Dincer 2018-10-09

This book covers emerging energy storage technologies and material characterization methods along with various systems and applications in building, power generation systems and thermal management. The authors present options available for reducing the net energy consumption for heating/cooling, improving the thermal properties of the phase change materials and optimization methods for heat storage embedded multi-generation systems. An in-depth discussion on the natural convection-driven phase change is included. The book also discusses main energy storage options for thermal management practices in photovoltaics and phase change material applications that aim passive thermal control. This book will appeal to researchers and professionals in the fields of mechanical engineering,

chemical engineering, electrical engineering, renewable energy, and thermodynamics. It can also be used as an ancillary text in upper-level undergraduate courses and graduate courses in these fields.

EBOOK: Fluid Mechanics (SI units) - White 2016-02-01

Overview White's Fluid Mechanics offers students a clear and comprehensive presentation of the material that demonstrates the progression from physical concepts to engineering applications and helps students quickly see the practical importance of fluid mechanics fundamentals. The wide variety of topics gives instructors many options for their course and is a useful resource to students long after graduation. The book's unique problem-solving approach is presented at the start of the book and carefully integrated in all examples. Students can progress from general ones to those involving design, multiple steps and computer usage. McGraw-Hill Education's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty. The eighth edition of Fluid Mechanics offers students a clear and comprehensive presentation of the material that demonstrates the progression from physical concepts to engineering applications. The book helps students to see the practical importance of fluid mechanics fundamentals. The wide variety of topics gives instructors many options for their course and is a useful resource to students long after graduation. The problem-solving approach is presented at the start of the book and carefully integrated in all examples. Students can progress from general examples to those involving design, multiple steps, and computer usage.

Solutions Manual - Pauline M. Doran 1997

Fundamentals of Thermal-fluid Sciences - Yunus A. Çengel 2021

"This text is an abbreviated version of standard thermodynamics, fluid mechanics, and heat transfer texts, covering topics that engineering students are most likely to need in their professional lives"--

Vapor Pressure of Ammonia - Carl Susan Cragoe 1920