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Chemical Engineering Fluid Mechanics
Ron Darby 2016-11-30 This book provides readers with the most current, accurate, and practical fluid mechanics related applications that the practicing BS level engineer needs today in the chemical and related industries, in addition to a fundamental understanding of these applications based upon sound fundamental basic scientific principles. The emphasis remains on problem solving, and the new edition includes many more examples.

ISE Viscous Fluid Flow Frank M. White

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2021-01-26

Solutions manual for fluid mechanics

Robert Alan Granger 1985

Elementary Fluid Mechanics John K.

Vennard 2013-04-16 ELEMENTARY FLUID

MECHANICS BY JOHN K. VENNARD

Assistant Professor of Fluid Mechanics New York University.

PREFACE: Fluid mechanics is the study under all possible conditions of rest and motion. Its approaches analytical, rational, and mathematical rather than empirical it concerns itself with those basic principles which lead to the solution of numerous diversified problems, and

it seeks results which are widely applicable to similar fluid situations and not limited to isolated special cases. Fluid mechanics recognizes no arbitrary boundaries between fields of engineering knowledge but attempts to solve all fluid problems, irrespective of their occurrence or of the characteristics of the fluids involved. This textbook is intended primarily for the beginner who knows the principles of mathematics and mechanics but has had no previous experience with fluid phenomena. The abilities of the average beginner and the tremendous scope of fluid mechanics appear to be in conflict, and the former obviously determine limits beyond which it is not feasible to go these practical limits represent the boundaries of the

subject which I have chosen to call elementary fluid mechanics. The apparent conflict between scope of subject and beginner's ability is only along mathematical lines, however, and the physical ideas of fluid mechanics are well within the reach of the beginner in the field. Holding to the belief that physical concepts are the sine qua non of mechanics, I have sacrificed mathematical rigor and detail in developing physical pictures and in many cases have stated general laws only without numerous exceptions and limitations in order to convey basic ideas such oversimplification is necessary in introducing a new subject to the beginner. Like other courses in mechanics, fluid mechanics must include disciplinary features as well as factual information the

beginner must follow theoretical developments, develop imagination in visualizing physical phenomena, and be forced to think his way through problems of theory and application. The text attempts to attain these objectives in the following ways omission of subsidiary conclusions is designed to encourage the student to come to some conclusions by himself application of bare principles to specific problems should develop ingenuity illustrative problems are included to assist in overcoming numerical difficulties and many numerical problems for the student to solve are intended not only to develop ingenuity but to show practical applications as well. Presentation of the subject begins with a discussion of fundamentals, physical properties and fluid

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statics. Frictionless flow is then discussed to bring out the applications of the principles of conservation of mass and energy, and of impulse-momentum law, to fluid motion. The principles of similarity and dimensional analysis are next taken up so that these principles may be used as tools in later developments. Frictional processes are discussed in a semi-quantitative fashion, and the text proceeds to pipe and open-channel flow. A chapter is devoted to the principles and apparatus for fluid measurements, and the text ends with an elementary treatment of flow about immersed objects.

Experimental Physical Chemistry

Daniels Farrington 2022-10-27 This work has been selected by scholars as being culturally important, and is

part of the knowledge base of civilization as we know it. This work is in the "public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Students Solutions Manual to Accompany Physical Chemistry: Quanta, Matter, and Change 2e Charles Trapp

2014 The Students Solutions Manual to

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Accompany Physical Chemistry: Quanta, Matter, and Change 2e provides full worked solutions to the 'a' exercises, and the odd-numbered discussion questions and problems presented in the parent book. The manual is intended for students and instructors alike, and provides helpful comments and friendly advice to aid understanding.

Heat Transfer Enhancement Using Nanofluid Flow in Microchannels

Davood Domairry Ganji 2016-06-11 Heat Transfer Enhancement Using Nanofluid Flow in Microchannels: Simulation of Heat and Mass Transfer focuses on the numerical simulation of passive techniques, and also covers the applications of external forces on heat transfer enhancement of nanofluids in microchannels. Economic and environmental incentives have

increased efforts to reduce energy consumption. Heat transfer enhancement, augmentation, or intensification are the terms that many scientists employ in their efforts in energy consumption reduction. These can be divided into (a) active techniques which require external forces such as magnetic force, and (b) passive techniques which do not require external forces, including geometry refinement and fluid additives. Gives readers the knowledge they need to be able to simulate nanofluids in a wide range of microchannels and optimise their heat transfer characteristics

Contains real-life examples, mathematical procedures, numerical algorithms, and codes to allow readers to easily reproduce the methodologies covered, and to

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understand how they can be applied in practice Presents novel applications for heat exchange systems, such as entropy generation minimization and figures of merit, allowing readers to optimize the techniques they use Focuses on the numerical simulation of passive techniques, and also covers the applications of external forces on heat transfer enhancement of nanofluids in microchannels

Applied Fluid Mechanics Robert L. Mott 2006

Physical and Chemical Equilibrium for Chemical Engineers Noel de Nevers 2012-03-20 This book concentrates on the topic of physical and chemical equilibrium. Using the simplest mathematics along with numerous numerical examples it accurately and rigorously covers physical and chemical equilibrium in depth and

detail. It continues to cover the topics found in the first edition however numerous updates have been made including: Changes in naming and notation (the first edition used the traditional names for the Gibbs Free Energy and for Partial Molal Properties, this edition uses the more popular Gibbs Energy and Partial Molar Properties,) changes in symbols (the first edition used the Lewis-Randal fugacity rule and the popular symbol for the same quantity, this edition only uses the popular notation,) and new problems have been added to the text. Finally the second edition includes an appendix about the Bridgman table and its use.

Introduction to Fluid Mechanics

Robert W. Fox 2008 One of the bestselling books in the field, Introduction to Fluid Mechanics
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continues to provide readers with a balanced and comprehensive approach to mastering critical concepts. The new seventh edition once again incorporates a proven problem-solving methodology that will help them develop an orderly plan to finding the right solution. It starts with basic equations, then clearly states assumptions, and finally, relates results to expected physical behavior. Many of the steps involved in analysis are simplified by using Excel.

Bioprocess Engineering Principles

Pauline M. Doran 1995-04-03 The emergence and refinement of techniques in molecular biology has changed our perceptions of medicine, agriculture and environmental management. Scientific breakthroughs in gene expression, protein

engineering and cell fusion are being translated by a strengthening biotechnology industry into revolutionary new products and services. Many a student has been enticed by the promise of biotechnology and the excitement of being near the cutting edge of scientific advancement. However, graduates trained in molecular biology and cell manipulation soon realise that these techniques are only part of the picture. Reaping the full benefits of biotechnology requires manufacturing capability involving the large-scale processing of biological material. Increasingly, biotechnologists are being employed by companies to work in co-operation with chemical engineers to achieve pragmatic commercial goals. For many years aspects of biochemistry and

molecular genetics have been included in chemical engineering curricula, yet there has been little attempt until recently to teach aspects of engineering applicable to process design to biotechnologists. This textbook is the first to present the principles of bioprocess engineering in a way that is accessible to biological scientists. Other texts on bioprocess engineering currently available assume that the reader already has engineering training. On the other hand, chemical engineering textbooks do not consider examples from bioprocessing, and are written almost exclusively with the petroleum and chemical industries in mind. This publication explains process analysis from an engineering point of view, but refers exclusively to the treatment of biological systems. Over

170 problems and worked examples encompass a wide range of applications, including recombinant cells, plant and animal cell cultures, immobilised catalysts as well as traditional fermentation systems. * * First book to present the principles of bioprocess engineering in a way that is accessible to biological scientists * Explains process analysis from an engineering point of view, but uses worked examples relating to biological systems * Comprehensive, single-authored * 170 problems and worked examples encompass a wide range of applications, involving recombinant plant and animal cell cultures, immobilized catalysts, and traditional fermentation systems * 13 chapters, organized according to engineering sub-disciplines, are

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grouped in four sections - Introduction, Material and Energy Balances, Physical Processes, and Reactions and Reactors * Each chapter includes a set of problems and exercises for the student, key references, and a list of suggestions for further reading * Includes useful appendices, detailing conversion factors, physical and chemical property data, steam tables, mathematical rules, and a list of symbols used * Suitable for course adoption - follows closely curricula used on most bioprocessing and process biotechnology courses at senior undergraduate and graduate levels.

Fluid Mechanics Pijush K. Kundu
2013-04-09 Written in a clear and simple style, this textbook on fluid mechanics gives equal emphasis to

both geophysical and engineering fluid mechanics. For physicists, it contains chapters on geophysical fluid mechanics and gravity waves; for engineers, it has chapters on aerodynamics and compressible flow. Of common interest are chapters on governing equations, laminar flows, boundary layers, instability, and turbulence. This book also presents topics of recent interest, such as deterministic chaos, and double-diffusive instability. n Gives equal treatment to topics in both engineering and geophysical fluid dynamics n Suitable as an intermediate or graduate course textbook for students in their senior year or above n Treats topics of recent interest such as deterministic chaos, double diffusive instability and soliton n Extensively illustrated

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n Contains fully worked examples in each chapter as well as end-of-chapter problems n An instructor's manual is available

Heat and Mass Transfer Frank M. White 1988 This book is a revision and extension of Frank White's Heat Transfer. The new text adds the topic of mass transfer and improves the original topics based on new literature and faculty suggestions. A highlight of the book is the addition of 22 new Special Design Projects covering conduction, free and forced convection, radiation, condensation, boiling, and heat exchangers. Numerous examples and problems have been added to the text to make it an improved learning tool.

Mass and Heat Transfer T. W. Fraser Russell 2008-02-11 This text allows instructors to teach a course on heat

and mass transfer that will equip students with the pragmatic, applied skills required by the modern chemical industry. This new approach is a combined presentation of heat and mass transfer, maintaining mathematical rigor while keeping mathematical analysis to a minimum. This allows students to develop a strong conceptual understanding, and teaches them how to become proficient in engineering analysis of mass contactors and heat exchangers and the transport theory used as a basis for determining how critical coefficients depend upon physical properties and fluid motions. Students will first study the engineering analysis and design of equipment important in experiments and for the processing of material at the commercial scale. The second part

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of the book presents the fundamentals of transport phenomena relevant to these applications. A complete teaching package includes a comprehensive instructor's guide, exercises, case studies, and project assignments.

Mechanics of Fluids SI Version Merle C. Potter 2012-08-08 MECHANICS OF FLUIDS presents fluid mechanics in a manner that helps students gain both an understanding of, and an ability to analyze the important phenomena encountered by practicing engineers. The authors succeed in this through the use of several pedagogical tools that help students visualize the many difficult-to-understand phenomena of fluid mechanics. Explanations are based on basic physical concepts as well as mathematics which are accessible to undergraduate

engineering students. This fourth edition includes a Multimedia Fluid Mechanics DVD-ROM which harnesses the interactivity of multimedia to improve the teaching and learning of fluid mechanics by illustrating fundamental phenomena and conveying fascinating fluid flows. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

2500 Solved Problems in Fluid Mechanics and Hydraulics Jack B. Evett 1994
Engineering Fluid Mechanics Solution Manual

Fluid Mechanics 2020
Fundamentals of Heat and Mass Transfer T. L Bergman 2011-04-12
Completely updated, the seventh edition provides engineers with an *Fluid Mechanics 7th Edition Solution Manual* Frank White Pdf Pdf upload
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in-depth look at the key concepts in the field. It incorporates new discussions on emerging areas of heat transfer, discussing technologies that are related to nanotechnology, biomedical engineering and alternative energy. The example problems are also updated to better show how to apply the material. And as engineers follow the rigorous and systematic problem-solving methodology, they'll gain an appreciation for the richness and beauty of the discipline.
Viscous Fluid Flow Frank M. White 1991 Designed for higher level courses in viscous fluid flow, this text presents a comprehensive treatment of the subject. This revision retains the approach and organization for which the first edition has been highly regarded,

while bringing the material completely up-to-date. It contains new information on the latest technological advances and includes many more applications, thoroughly updated problems and exercises.

Introduction to Fluid Mechanics

Robert W. Fox 1994-01-01 By explaining basic equations, stating assumptions and then relating results to expected physical behavior, this new edition will help students to develop a systematic, orderly approach to problem solving. Aimed at an introductory course covering the basic elements of fluid mechanics, the study contains new material on fluid machinery, supersonic channel flow and more current data for real situations.

Fox and McDonald's Introduction to

Fluid Mechanics Robert W. Fox

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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.

Fundamentals of Fluid Mechanics Bruce

Roy Munson 1999

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Fundamentals Of Momentum, Heat, And Mass Transfer, 5Th Ed Wicks Welty, Wilson Rorrer 2010-10-12 The book provides a unified treatment of momentum transfer (fluid mechanics), heat transfer, and mass transfer. This new edition has been updated to include more coverage of modern topics such as biomedical/biological applications as well as an added separations topic on membranes. Additionally, the fifth edition focuses on an explicit problem-solving methodology that is thoroughly and consistently implemented throughout the text.· Chapter 1: Introduction to Momentum Transfer· Chapter 2: Fluid Statics· Chapter 3: Description of a Fluid in Motion· Chapter 4: Conservation of Mass: Control-Volume Approach· Chapter 5: Newton's Second Law of

Motion: Control-Volume Approach·
Chapter 6: Conservation of Energy:
Control-Volume Approach· Chapter 7:
Shear Stress in Laminar Flow· Chapter
8: Analysis of a Differential Fluid
Element in Laminar Flow· Chapter 9:
Differential Equations of Fluid Flow·
Chapter 10: Inviscid Fluid Flow·
Chapter 11: Dimensional Analysis and
Similitude· Chapter 12: Viscous Flow·
Chapter 13: Flow in Closed Conduits·
Chapter 14: Fluid Machinery· Chapter
15: Fundamentals of Heat Transfer·
Chapter 16: Differential Equations of
Heat Transfer· Chapter 17: Steady-
State Conduction· Chapter 18:
Unsteady-State Conduction· Chapter
19: Convective Heat Transfer· Chapter
20: Convective Heat-Transfer
Correlations· Chapter 21: Boiling and
Condensation· Chapter 22: Heat-
Transfer Equipment· Chapter 23:

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Radiation Heat Transfer· Chapter 24:
Fundamentals of Mass Transfer· Chapter
25: Differential Equations of Mass
Transfer· Chapter 26: Steady-State
Molecular Diffusion· Chapter 27:
Unsteady-State Molecular Diffusion·
Chapter 28: Convective Mass Transfer·
Chapter 29: Convective Mass Transfer
Between Phases· Chapter 30:
Convective Mass-Transfer
Correlations· Chapter 31: Mass-
Transfer Equipment

*A Physical Introduction to Fluid
Mechanics* Alexander J. Smits 2000
Uncover Effective Engineering
Solutions to Practical Problems With
its clear explanation of fundamental
principles and emphasis on real world
applications, this practical text
will motivate readers to learn. The
author connects theory and analysis
to practical examples drawn from

engineering practice. Readers get a better understanding of how they can apply these concepts to develop engineering answers to various problems. By using simple examples that illustrate basic principles and more complex examples representative of engineering applications throughout the text, the author also shows readers how fluid mechanics is relevant to the engineering field. These examples will help them develop problem-solving skills, gain physical insight into the material, learn how and when to use approximations and make assumptions, and understand when these approximations might break down. Key Features of the Text * The underlying physical concepts are highlighted rather than focusing on the mathematical equations. *

Dimensional reasoning is emphasized

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as well as the interpretation of the results. * An introduction to engineering in the environment is included to spark reader interest. * Historical references throughout the chapters provide readers with the rich history of fluid mechanics.

Fluid Mechanics, Heat Transfer, and Mass Transfer K. S. Raju 2011-04-20

This broad-based book covers the three major areas of Chemical Engineering. Most of the books in the market involve one of the individual areas, namely, Fluid Mechanics, Heat Transfer or Mass Transfer, rather than all the three. This book presents this material in a single source. This avoids the user having to refer to a number of books to obtain information. Most published books covering all the three areas in a single source emphasize theory

rather than practical issues. This book is written with emphasis on practice with brief theoretical concepts in the form of questions and answers, not adopting stereo-typed question-answer approach practiced in certain books in the market, bridging the two areas of theory and practice with respect to the core areas of chemical engineering. Most parts of the book are easily understandable by those who are not experts in the field. Fluid Mechanics chapters include basics on non-Newtonian systems which, for instance find importance in polymer and food processing, flow through piping, flow measurement, pumps, mixing technology and fluidization and two phase flow. For example it covers types of pumps and valves, membranes and areas of their use, different equipment

commonly used in chemical industry and their merits and drawbacks. Heat Transfer chapters cover the basics involved in conduction, convection and radiation, with emphasis on insulation, heat exchangers, evaporators, condensers, reboilers and fired heaters. Design methods, performance, operational issues and maintenance problems are highlighted. Topics such as heat pipes, heat pumps, heat tracing, steam traps, refrigeration, cooling of electronic devices, NO_x control find place in the book. Mass transfer chapters cover basics such as diffusion, theories, analogies, mass transfer coefficients and mass transfer with chemical reaction, equipment such as tray and packed columns, column internals including structural packings, design, operational and

installation issues, drums and separators are discussed in good detail. Absorption, distillation, extraction and leaching with applications and design methods, including emerging practices involving Divided Wall and Petluk column arrangements, multicomponent separations, supercritical solvent extraction find place in the book.

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

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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.

1000 Solved Problems in Fluid Mechanics (includes Hydraulic Machines) K. Subramanya 2005

Fundamentals of Heat and Mass Transfer Theodore L. Bergman 2012-02-01 This bestselling book in the field provides a complete introduction to the physical origins of heat and mass transfer. Noted for its crystal clear presentation and easy-to-follow problem solving methodology, Incropera and Dewitt's systematic approach to the first law develops reader confidence in using this essential tool for thermal analysis. Readers will learn the meaning of the terminology and physical principles of heat transfer as well as how to use requisite

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inputs for computing heat transfer rates and/or material temperatures.

Study Guide to Accompany Macroeconomics Dean Darrell Croushore 2001

Fluid Mechanics in SI Units R. C. Hibbeler 2017 Pearson introduces yet another textbook from Professor R. C. Hibbeler - Fluid Mechanics in SI Units - which continues the author's commitment to empower students to master the subject.

Basics of Engineering Economy Leland T. Blank 2014 Covers the basic techniques and applications of engineering economy for all disciplines in the engineering profession. This title explains and demonstrates the principles and techniques of engineering economic analysis as applied in different fields of engineering.

Principles of Heat Transfer Frank Kreith 1986 Frank Kreith and Mark Bohn's PRINCIPLES OF HEAT TRANSFER is known and respected as a classic in the field! The sixth edition has new homework problems, and the authors have added new Mathcad problems that show readers how to use computational software to solve heat transfer problems. This new edition features own web site that features real heat transfer problems from industry, as well as actual case studies.

Loose Leaf for Fluid Mechanics Frank M. White 2015-01-29

Fluid Mechanics Frank M. White 1999 Given a modern, updated design, this new edition comes complete with 500 new problems, split into different fundamental, applied, design and word categories. Additional material includes pedagogical and motivational

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aids in the form of Key Equations Cards.

Steel Design William T. Segui 2012-08-01 STEEL DESIGN covers the fundamentals of structural steel design with an emphasis on the design of members and their connections, rather than the integrated design of buildings. The book is designed so that instructors can easily teach LRFD, ASD, or both, time-permitting. The application of fundamental principles is encouraged for design procedures as well as for practical design, but a theoretical approach is also provided to enhance student development. While the book is intended for junior-and senior-level engineering students, some of the later chapters can be used in graduate courses and practicing engineers will find this text to be

an essential reference tool for reviewing current practices. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Engineering Fluid Mechanics John A. Roberson 1993-01-01 This comprehensive introduction to the field of fluid mechanics does not restrict its emphasis to a particular discipline. The first part of the book introduces basic principles such as pressure variation, the momentum principle, and energy equations. The second part uses these principles in general applications. This edition presents expanded coverage of civil engineering topics. It continues to follow the control-volume approach established in earlier editions. It

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also includes almost all steps in the derivations, along with complete word descriptions, and rigorous and clear derivation of equations.

Introduction to Mathematical Statistics, Fifth Edition Robert V. Hogg 1995

Automation, Production Systems, and Computer-integrated Manufacturing Mikell P. Groover 2013-07-29 For advanced undergraduate/ graduate-level courses in Automation, Production Systems, and Computer-Integrated Manufacturing. This exploration of the technical and engineering aspects of automated production systems provides the most advanced, comprehensive, and balanced coverage of the subject of any text on the market. It covers all the major cutting-edge technologies of production automation and material

handling, and how these technologies are used to construct modern manufacturing systems.

Fundamentals of Machine Elements

Bernard J. Hamrock 2007-02-01

Provides undergraduates and practicing engineers with an understanding of

the theory and applications behind the fundamental concepts of machine elements. This text includes examples and homework problems designed to test student understanding and build their skills in analysis and design.