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THERMODYNAMICS (POD) Advanced Engineering Thermodynamics Basic Engineering
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Handbook Elements of Engineering Thermodynamics *Michael J. Moran Michael J. Moran Michael J. Moran
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Joseph Mauk Smith M. David Burghardt James Ambrose Moyer*

most problems encountered in chemical engineering are sophisticated and interdisciplinary thus it is

important for today's engineering students, researchers, and professionals to be proficient in the use of software tools for problem solving. Matlab is one such tool that is distinguished by the ability to perform calculations in vector/matrix form, a large library of built-in functions, strong structural language, and a rich set of graphical visualization tools. Furthermore, Matlab integrates computations, visualization, and programming in an intuitive, user-friendly environment. Chemical engineering computation with Matlab presents basic to advanced levels of problem solving techniques. Using Matlab as the computation environment, the book provides examples and problems extracted from core chemical engineering subject areas and presents a basic instruction in the use of Matlab for problem solving. It provides many examples and exercises and extensive problem solving instruction and solutions for various problems. Solutions are developed using fundamental principles to construct mathematical models, and an equation-oriented approach is used to generate numerical results. A wealth of examples demonstrate the implementation of various problem solving approaches and methodologies for problem formulation, problem solving, analysis, and presentation, as well as visualization and documentation of results. This book also provides aid with advanced problems that are often encountered in graduate research and industrial operations, such as nonlinear regression, parameter estimation in differential systems, two-point boundary value problems, and partial differential equations and optimization.

Modern Engineering Thermodynamics is designed for use in a standard two-semester engineering thermodynamics course sequence. The first half of the text contains material suitable for a basic thermodynamics course taken by engineers from all majors. The second half of the text is suitable for an applied thermodynamics course in mechanical engineering programs. The text has numerous features that are unique among engineering textbooks, including historical vignettes, critical thinking boxes, and case studies. All are designed to bring real engineering applications into a subject that can be somewhat abstract and mathematical. Over 200 worked examples and more than 1,300 end-of-chapter problems provide opportunities to practice solving problems related to concepts in the text. The reader is provided with clear presentations of the fundamental principles of basic and applied engineering thermodynamics. Helps students develop engineering problem solving skills through the use of structured problem solving techniques. Introduces the second law of thermodynamics through a basic entropy concept, providing students a more intuitive understanding of this key course topic. Covers property values before the first law of thermodynamics to ensure students have a firm understanding of property data before using them. Over 200 worked examples and more than 1,300 end-of-chapter problems offer students extensive opportunity to practice solving problems. Historical vignettes, critical thinking boxes, and case studies throughout the book help relate abstract concepts to actual engineering applications. For greater instructor flexibility at exam time, thermodynamic tables are provided in a separate accompanying booklet. Available online testing and assessment component helps students assess their knowledge of the topics. Email textbooks@elsevier.com for details.

There is a renaissance that is occurring in chemical and process engineering, and it is crucial for today's scientists, engineers, technicians, and operators to stay current with so many changes. Over the last few decades, in equipment and processes, petroleum refining is almost a living document, constantly needing updating. With no new refineries being built, companies are spending their capital retooling and adding on to existing plants. Refineries are like small cities today as they grow bigger and bigger and more and more complex. A huge percentage of a refinery can be changed literally from year to year to account for the type of crude being refined or to integrate new equipment or processes. This book is the most up-to-date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state of the art to the engineer, scientist, or student. Useful as a textbook, this is also an excellent handy go-to reference for the veteran engineer. A volume no chemical or process engineering library should be without. Written by one of the world's foremost authorities, this book sets the standard for the industry and is an integral part of the petroleum refining renaissance. It is truly a must-have for

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the first law of thermodynamics the second law of thermodynamics the two laws combined the destruction of exergy single phase systems exergy analysis multiphase systems chemically reactive systems power generation solar power refrigeration thermodynamic optimization irreversible thermodynamics constructal theory of organization in nature

this introduction to thermodynamics for engineering students assumes no previous instruction in the subject the book covers the first and second laws of thermodynamics with a special emphasis on their implications for engineers each topic is illustrated with worked examples and is presented in a logical order allowing the student to tackle increasingly complex problems problems and selected answers are included the heart of engineering thermodynamics is the conversion of heat into work increasing demands for more efficient conversion for example to reduce carbon dioxide emissions are leading to the adoption of new thermodynamic cycles however the principles of these new cycles are very simple and are subject to the standard laws of thermodynamics as explained in this book

presents basic thermodynamic principles and shows how they may be applied to the solution of engineering problems

introduction to chemical engineering thermodynamics 6 e presents comprehensive coverage of the subject of thermodynamics from a chemical engineering viewpoint the text provides a thorough exposition of the principles of thermodynamics and details their application to chemical processes the chapters are written in a clear logically organized manner and contain an abundance of realistic problems examples and illustrations to help students understand complex concepts new ideas terms and symbols constantly challenge the readers to think and encourage them to apply this fundamental body of knowledge to the solution of practical problems the comprehensive nature of this book makes it a useful reference both in graduate courses and for professional practice the sixth edition continues to be an excellent tool for teaching the subject of chemical engineering thermodynamics to undergraduate students

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