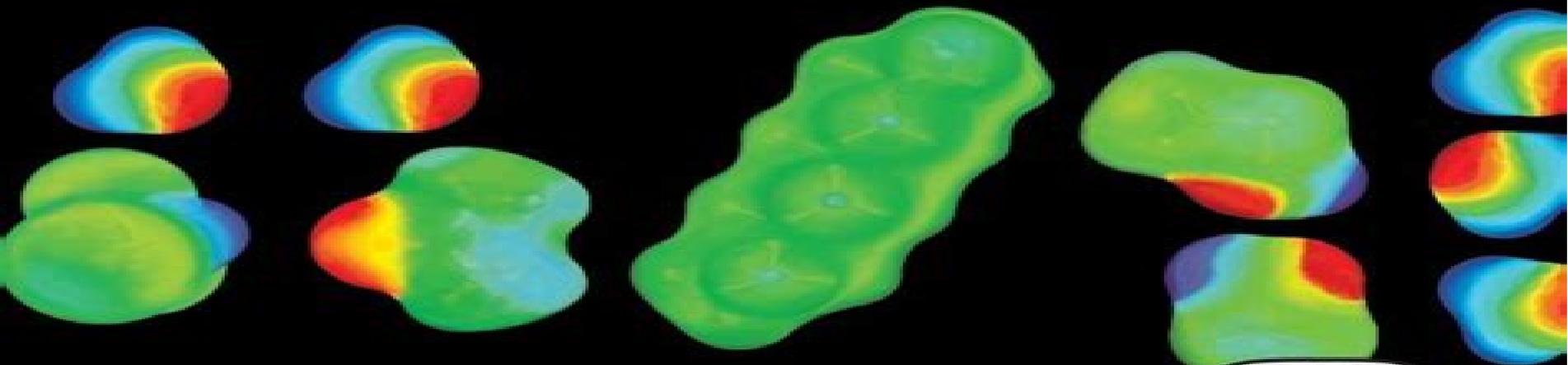


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Introductory Chemical Engineering Thermodynamics J. Richard Elliott, Carl T. Lira, 2012-02-06 A Practical Up to Date Introduction to Applied Thermodynamics Including Coverage of Process Simulation Models and an Introduction to Biological Systems Introductory Chemical Engineering Thermodynamics Second Edition helps readers master the fundamentals of applied thermodynamics as practiced today with extensive development of molecular perspectives that enables adaptation to fields including biological systems environmental applications and nanotechnology This text is distinctive in making molecular perspectives accessible at the introductory level and connecting properties with practical implications Features of the second edition include Hierarchical instruction with increasing levels of detail Content requiring deeper levels of theory is clearly delineated in separate sections and chapters Early introduction to the overall perspective of composite systems like distillation columns reactive processes and biological systems Learning objectives problem solving strategies for energy balances and phase equilibria chapter summaries and important equations for every chapter Extensive practical examples especially coverage of non ideal mixtures which include water contamination via hydrocarbons polymer blending recycling oxygenated fuels hydrogen bonding osmotic pressure electrolyte solutions zwitterions and biological molecules and other contemporary issues Supporting software in formats for both MATLAB and spreadsheets Online supplemental sections and resources including instructor slides ConcepTests coursecast videos and other useful resources

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Introduction to Chemical Reactor Analysis, Second Edition R.E. Hayes, J.P. Mmbaga, 2012-10-05 Introduction to Chemical Reactor Analysis Second Edition introduces the basic concepts of chemical reactor analysis and design an important foundation for understanding chemical reactors which play a central role in most industrial chemical plants The scope of the second edition has been significantly enhanced and the content reorganized for improved pedagogical value containing sufficient material to be used as a text for an undergraduate level two term course This edition also contains five new chapters on catalytic reaction engineering Written so that newcomers to the field can easily progress through the topics this text provides sufficient knowledge for readers to perform most of the common reaction engineering calculations required for a typical practicing engineer The authors introduce kinetics reactor types and commonly used terms in the first chapter Subsequent chapters cover a review of chemical engineering thermodynamics mole balances in ideal reactors for three common reactor types energy balances in ideal reactors and chemical reaction kinetics The text also presents an introduction to nonideal reactors and explores kinetics and reactors in catalytic systems The book assumes that readers have some knowledge of thermodynamics numerical methods heat transfer and fluid flow The authors include an appendix for numerical methods which are essential to solving most realistic problems in chemical reaction engineering They also provide numerous worked examples and additional problems in each chapter Given the significant number of chemical engineers involved in chemical

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Bill Poirier, 2014-07-16 Thermodynamics is the science that describes the behavior of matter at the macroscopic scale and how this arises from individual molecules As such it is a subject of profound practical and fundamental importance to many science and engineering fields Despite extremely varied applications ranging from nanomotors to cosmology the core concepts of thermodynamics such as equilibrium and entropy are the same across all disciplines A Conceptual Guide to Thermodynamics serves as a concise conceptual and practical supplement to the major thermodynamics textbooks used in various fields Presenting clear explanations of the core concepts the book aims to improve fundamental understanding of the material as well as homework and exam performance Distinctive features include Terminology and Notation Key A universal translator that addresses the myriad of conventions terminologies and notations found across the major thermodynamics texts Content Maps Specific references to each major thermodynamic text by section and page number for each new concept that is introduced Helpful Hints and Don t Try Its Numerous useful tips for solving problems as well as warnings of common student pitfalls Unique Explanations Conceptually clear mathematically fairly simple yet also sufficiently precise and rigorous A more extensive set of reference materials including older and newer editions of the major textbooks as well as a number of less commonly used titles is available online at <http://www.conceptualthermo.com> Undergraduate and graduate students of chemistry physics engineering geosciences and biological sciences will benefit from this book as will students preparing for graduate school entrance exams and MCATs

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Chemical Engineering Computation with MATLAB® Yeong Koo Yeo, 2017-08-01 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

Introductory Chemical Engineering Thermodynamics J. Richard Elliott, Carl T. Lira, 2012 In this book two leading experts and long time instructors thoroughly explain thermodynamics taking the molecular perspective that working engineers require This edition contains extensive new coverage of today's fast growing biochemical engineering applications notably biomass conversion to fuels and chemicals It also presents many new MATLAB examples and tools to complement its previous usage of Excel and other software

Heat Pumps in Chemical Process Industry Anton A. Kiss, Carlos A. Infante Ferreira, 2016-10-14 As the chemical process industry is among the most energy demanding sectors chemical engineers are endeavoring to contribute towards sustainable future Due to the limitation of fossil fuels the need for energy independence as well as the environmental problem of the greenhouse gas effect there is a large increasing interest in the research and development of chemical processes that require less capital investment and reduced operating costs and lead to high eco efficiency The use of heat pumps is a hot topic due to many advantages such as low energy requirements as well as an increasing number of industrial applications Therefore in the current book authors are focusing on use of heat pumps in the chemical industry providing an overview of heat pump technology as applied in the chemical process industry covering both theoretical and practical aspects working principle applied thermodynamics theoretical background numerical examples and case studies as well as practical applications The worked out examples have been included to instruct students engineers and process designers about how to design various heat pumps used in the industry Reader friendly resources namely relevant equations diagrams figures and references that reflect the current and upcoming heat pump technologies will be of great help to all readers from the chemical and petrochemical industry biorefineries and other related areas

Industrial Chemical Separation Timothy C. Frank, Bruce S. Holden, 2023-08-07 A fresh new treatment written by industry insiders this work gives readers a remarkably clear view into the world of chemical separation The authors review distillation extraction adsorption crystallization and the use of membranes providing historical perspective explaining key features and offering insights from personal experience The book is for engineers and chemists with current or future responsibility for chemical separation on a commercial scale in its design operation or improvement or for anyone wanting to learn more about chemical separation from an industrial point of view The result is a compelling survey of popular technologies and the profession one that brings the art and craft of chemical separation to life Ever wonder how popular separation technologies came about how a particular process functions or how mass transfer units differ from theoretical stages Or perhaps you want some pointers on how to begin solving a separation problem You will find clear explanations and

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The Properties of Gases and Liquids, Sixth Edition J. Richard Elliott, Vladimir Diky, Thomas A. Knotts IV, W. Vincent Wilding, 2023-02-10 A thoroughly revised edition of the go to chemical engineering reference Fully updated for the latest advances this must have chemical engineering guide serves as a single source for up to date physical data chemical data and predictive and estimation methods The Properties of Gases and Liquids Sixth Edition provides the latest curated data on over 480 compounds and includes a special section devoted to the interpretation of uncertainty in physical property estimation You will get new coverage of advanced EOSs advanced computational methods quantum density functional theory and semi empirical combinations Clear explanations and sample calculations are provided throughout this all inclusive resource Coverage includes Traditional and non traditional estimation methods Uncertainty Critical properties and related constants Ideal gas properties Saturation properties and virial coefficients Equations of state for pure compounds Equations of state for mixture properties Vapor liquid liquid liquid and solid liquid equilibria Infinite dilution activity coefficients Viscosity and thermal conductivity Diffusivity and surface tension

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HALDER,2014-09-02 This book now in its second edition continues to provide a comprehensive introduction to the principles of chemical engineering thermodynamics and also introduces the student to the application of principles to various practical areas The book emphasizes the role of the fundamental principles of thermodynamics in the derivation of significant relationships between the various thermodynamic properties The initial chapter provides an overview of the basic concepts and processes and discusses the important units and dimensions involved The ensuing chapters in a logical presentation thoroughly cover the first and second laws of thermodynamics the heat effects the thermodynamic properties and their relations refrigeration and liquefaction processes and the equilibria between phases and in chemical reactions The book is suitably illustrated with a large number of visuals In the second edition new sections on Quasi Static Process and Entropy Change in Reversible and Irreversible Processes are included Besides new Solved Model Question Paper and several new Multiple Choice Questions are also added that help develop the students ability and confidence in the application of the underlying concepts Primarily intended for the undergraduate students of chemical engineering and other related engineering disciplines such as polymer petroleum and pharmaceutical engineering the book will also be useful for the postgraduate students of the subject as well as professionals in the relevant fields **The Chemical Age** ,1929

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