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Kumar, Rakesh K. Gupta, 2003-01-21 Exploring the characterization thermodynamics and structural mechanical thermal and transport behavior of polymers as melts solutions and solids this text covers essential concepts and breakthroughs in reactor design and polymer production and processing It contains modern theories end of chapter problems and real world examples for a clear understanding of polymer function and development Fundamentals of Polymer Engineering Second Edition provides a thorough grounding in the fundamentals of polymer science for more advanced study in the field of polymers Topics include reaction engineering of step growth polymerization emulsion polymerization and polymer diffusion

Molecular Thermodynamics of Fluid-Phase Equilibria John M. Prausnitz, Rudiger N. Lichtenthaler, Edmundo Gomes de Azevedo, 1998-10-22 The classic guide to mixtures completely updated with new models theories examples and data Efficient separation operations and many other chemical processes depend upon a thorough understanding of the properties of gaseous and liquid mixtures Molecular Thermodynamics of Fluid Phase Equilibria Third Edition is a systematic practical guide to interpreting correlating and predicting thermodynamic properties used in mixture related phase equilibrium calculations Completely updated this edition reflects the growing maturity of techniques grounded in applied statistical thermodynamics and molecular simulation while relying on classical thermodynamics molecular physics and physical chemistry wherever these fields offer superior solutions Detailed new coverage includes Techniques for improving separation processes and making them more environmentally friendly Theoretical concepts enabling the description and interpretation of solution properties New models notably the lattice fluid and statistical associated fluid theories Polymer solutions including gas polymer equilibria polymer blends membranes and gels Electrolyte solutions including semi empirical models for solutions containing salts or volatile electrolytes Coverage also includes fundamentals of classical thermodynamics of phase equilibria thermodynamic properties from volumetric data intermolecular forces fugacities in gas and liquid mixtures solubilities of gases and solids in liquids high pressure phase equilibria virial coefficients for quantum gases and much more Throughout Molecular Thermodynamics of Fluid Phase Equilibria strikes a perfect balance between empirical techniques and theory and is replete with useful examples and experimental data More than ever it is the essential resource for engineers chemists and other professionals working with mixtures and related processes

Handbook of Aqueous Electrolyte Thermodynamics Joseph F. Zemaitis, Jr., Diane M. Clark, Marshall Rafal, Noel C. Scrivner, 2010-09-16 Expertise in electrolyte systems has become increasingly important in traditional CPI operations as well as in oil gas exploration and production This book is the source for predicting electrolyte systems behavior an indispensable do it yourself guide with a blueprint for formulating predictive mathematical electrolyte models recommended tabular values to use in these models and annotated bibliographies The final chapter is a general recipe for formulating complete predictive models for electrolytes along with a series of worked illustrative examples It can serve as a useful research and application tool for the practicing process engineer and as a textbook for the chemical engineering student

General Thermodynamics Donald Olander, 2007-11-26

Because classical thermodynamics evolved into many branches of science and engineering most undergraduate courses on the subject are taught from the perspective of each area of specialization General Thermodynamics combines elements from mechanical and chemical engineering chemistry including electrochemistry materials science and biology to present a unique and thorough treatment of thermodynamics that is broader in scope than other fundamental texts This book contains classroom tested materials designed to meet the academic requirements for students from a variety of scientific and engineering backgrounds in a single course The first half focuses on classical concepts of thermodynamics whereas the latter half explores field specific applications including a unique chapter on biothermodynamics The book s methodology is unified concise and multidisciplinary allowing students to understand how the principles of thermodynamics apply to all technical fields that touch upon this most fundamental of scientific theories It also offers a rigorous approach to the quantitative aspects of thermodynamics accompanied by clear explanations to help students transition smoothly from the physical concepts to their mathematical representations Each chapter contains numerous worked examples taken from different engineering applications illustrations and an extensive set of exercises to support the material A complete solutions manual is available to professors with qualifying course adoptions

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Fundamentals of Polymer Engineering, Third Edition Anil Kumar, Rakesh K. Gupta, 2018-12-07 Exploring the chemistry of synthesis mechanisms of polymerization reaction engineering of step growth and chain growth polymerization polymer characterization thermodynamics and structural mechanical thermal and transport behavior of polymers as melts solutions and solids

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Physical Chemistry Robert J. Silbey, Robert A. Alberty, George A. Papadantonakis, Mouni G. Bawendi, 2022-06-15 Ever since Physical Chemistry was first published in 1913 it has remained a highly effective and relevant learning tool thanks to

the efforts of physical chemists from all over the world Each new edition has benefited from their suggestions and expert advice The result of this remarkable tradition is now in your hands

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Basic Principles and Calculations in Chemical Engineering David M. Himmelblau, James B. Riggs, 2022-07-27 The 1 Guide to Chemical Engineering Principles Techniques Calculations and Applications Revised Streamlined and Modernized with New Examples Basic Principles and Calculations in Chemical Engineering Ninth Edition has been thoroughly revised streamlined and updated to reflect sweeping changes in the chemical engineering field This introductory guide addresses the full scope of contemporary chemical petroleum and environmental engineering applications and contains extensive new coverage and examples related to biotech nanotech green environmental engineering and process safety with many new MATLAB and Python problems throughout Authors David M Himmelblau and James B Riggs offer a strong foundation of skills and knowledge for successful study and practice guiding students through formulating and solving material and energy balance problems as well as describing gases liquids and vapors Throughout they introduce efficient consistent learner friendly ways to solve problems analyze data and gain a conceptual application based understanding of modern processes This edition condenses coverage from previous editions to serve today's students and faculty more efficiently In two entirely new chapters the authors provide a comprehensive introduction to dynamic material and energy balances as well as psychrometric charts Modular chapters designed to support introductory courses of any length Introductions to unit conversions basis selection and process measurements Strategies for solving diverse material and energy balance problems including material balances with chemical reaction and for multi unit processes and energy balances with reaction Clear introductions to key concepts ranging from stoichiometry to enthalpy Coverage of ideal real gases multi phase equilibria unsteady state material humidity psychrometric charts and more Self assessment questions to help readers identify areas they don't fully understand Thought discussion and homework problems in every chapter New biotech bioengineering nanotechnology green environmental engineering and process safety coverage Relevant new MATLAB and Python homework problems and projects Extensive

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Integrated Design and Simulation of Chemical Processes

Alexandre C. Dimian,2003-05-13 This title aims to teach how to invent optimal and sustainable chemical processes by making use of systematic conceptual methods and computer simulation techniques The material covers five sections process simulation thermodynamic methods process synthesis process integration and design project including case studies It is primarily intended as a teaching support for undergraduate and postgraduate students following various process design courses and projects but will also be of great value to professional engineers interested in the newest design methods Provides an introduction to the newest design methods Of great value to undergraduate and postgraduate students as well as professional engineers Numerous examples illustrate theoretical principles and design issues

Chemical Engineering Essentials, Volume 1 Raj K. Arya,George D. Verros,J. Paulo Davim,2025-05-19 In an era of rapid innovation and with a focus on sustainability Chemical Engineering Essentials provides a definitive guide to mastering the discipline Divided into two volumes this series offers a seamless blend of foundational knowledge and advanced applications to address the evolving needs of academia and industry This volume lays a strong foundation with topics such as material and energy balances thermodynamics phase equilibrium fluid mechanics transport phenomena and essential separation processes such as distillation and membrane technologies Volume 2 builds on these principles delving into reaction engineering reactor modeling with MATLAB and ASPEN PLUS material properties process intensification and nanotechnology It also addresses critical global challenges emphasizing green chemistry waste minimization resource recovery and workplace safety Together these volumes provide a holistic understanding of chemical engineering equipping readers with the tools to innovate and lead in a dynamic and sustainable future

The Properties of Gases and Liquids 5E Bruce E. Poling,John M. Prausnitz,John P.

O'Connell,2000-11-27 Must have reference for processes involving liquids gases and mixtures Reap the time saving mistake avoiding benefits enjoyed by thousands of chemical and process design engineers research scientists and educators Properties of Gases and Liquids Fifth Edition is an all inclusive critical survey of the most reliable estimating methods in use today now completely rewritten and reorganized by Bruce Poling John Prausnitz and John O Connell to reflect every late

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Letcher,Emmerich Wilhelm,2021-09-15 This book contains the latest information on all aspects of the most important chemical thermodynamic properties of Gibbs energy and Helmholtz energy as related to fluids Both the Gibbs energy and Helmholtz energy are very important in the fields of thermodynamics and material properties as many other properties are obtained from the temperature or pressure dependence Bringing all the information into one authoritative survey the book is written by acknowledged world experts in their respective fields Each of the chapters will cover theory experimental methods and techniques and results for all types of liquids and vapours This book is the fourth in the series of Thermodynamic Properties related to liquids solutions and vapours edited by Emmerich Wilhelm and Trevor Letcher The previous books were Heat Capacities 2010 Volume Properties 2015 and Enthalpy 2017 This book fills the gap in fundamental thermodynamic properties and is the last in the series Sustainable Desalination Handbook Gnaneswar Gude,2018-03-07 Sustainable

Desalination Handbook Plant Selection Design and Implementation provides the comprehensive knowledge base required for efficient and sustainable process design for existing and new desalination plants around the world This valuable resource for understanding and utilizing the most recent developments in desalination technologies and methods addresses the necessary components including process design and implementation operational strategies and novel discoveries that minimize environmental impacts In addition the book features essential illustrations operational details issues and potential solutions and sustainable management strategies for present and future desalination plants Explains plant design and process selection criteria for each desalination process Presents international regulations and permitting for intake and discharge locations design and disposal Provides energy recovery schemes optimization and process controls Covers renewable energy sources such as nuclear geothermal solar and wind powered desalination energy storage and optimization Includes case studies of recent desalination projects and process design **Principles and Applications of Mass Transfer** Jaime

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Perry's Chemical Engineers' Handbook Robert H. Perry, Don W. Green, James O. Maloney, 1997 Reference work for chemical and process engineers Newest developments advances achievements and methods in various fields

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