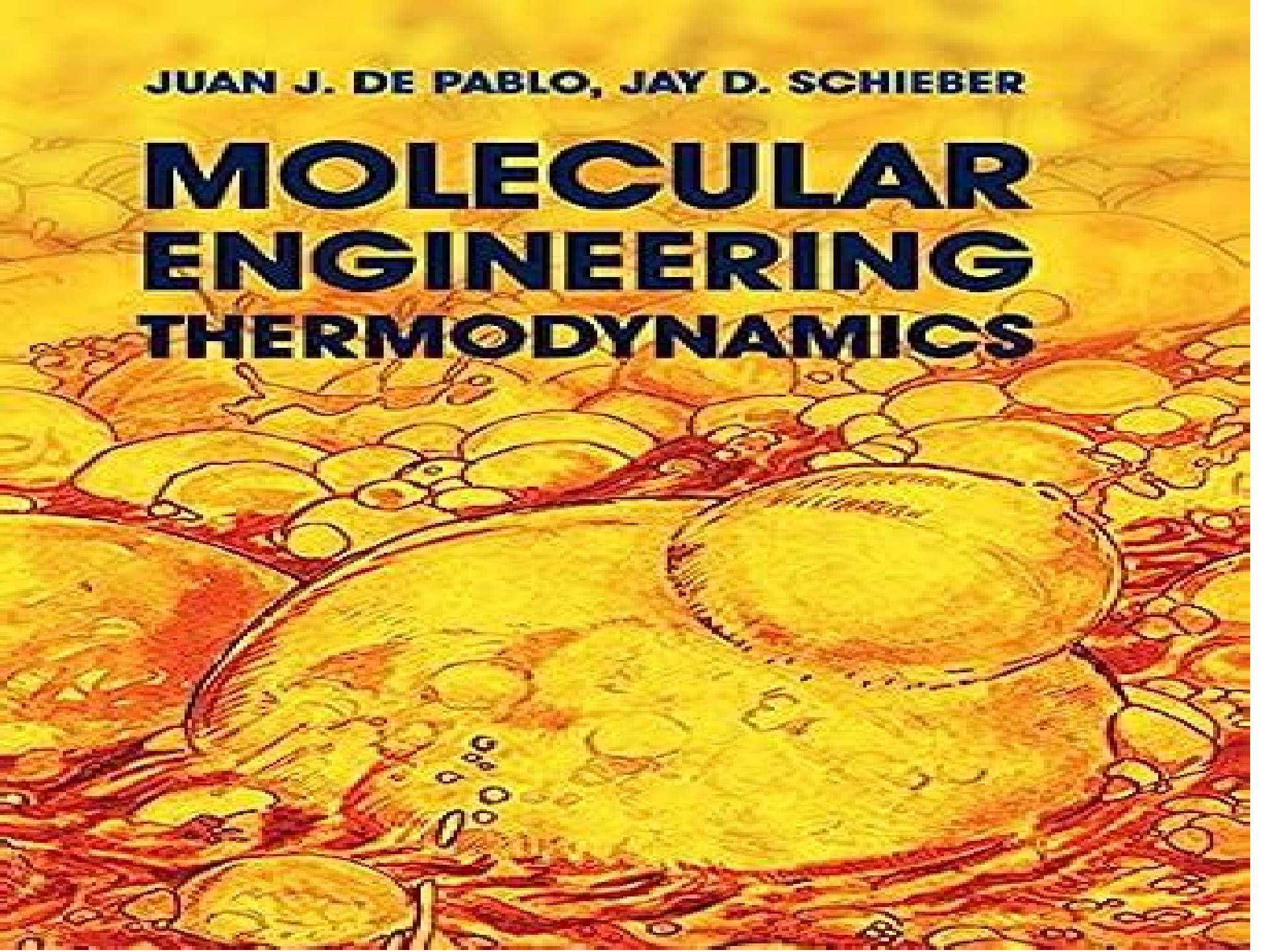


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chemical technologies *Advanced Optimization for Process Systems Engineering* Ignacio E. Grossmann, 2021-03-25 Based on the author's forty years of teaching experience this unique textbook covers both basic and advanced concepts of optimization theory and methods for process systems engineers Topics covered include continuous discrete and logic optimization linear nonlinear mixed integer and generalized disjunctive programming optimization under uncertainty stochastic programming and flexibility analysis and decomposition techniques Lagrangean and Benders decomposition Assuming only a basic background in calculus and linear algebra it enables easy understanding of mathematical reasoning and numerous examples throughout illustrate key concepts and algorithms End of chapter exercises involving theoretical derivations and small numerical problems as well as in modeling systems like GAMS enhance understanding and help put knowledge into practice Accompanied by two appendices containing web links to modeling systems and models related to applications in PSE this is an essential text for single semester graduate courses in process systems engineering in departments of chemical engineering Theory and Applications of Colloidal Suspension Rheology Norman J. Wagner, Jan Mewis, 2021-04-15 An essential text on practical application theory and simulation written by an international coalition of experts in the field and edited by the authors of *Colloidal Suspension Rheology* This up to date work builds upon the prior work as a valuable guide to formulation and processing as well as fundamental rheology of colloidal suspensions Thematically theory and simulation are connected to industrial application by consideration of colloidal interactions particle properties and suspension microstructure Important classes of model suspensions including gels glasses and soft particles are covered so as to develop a deeper understanding of industrial systems ranging from carbon black slurries paints and coatings asphalt cement and mine tailings to natural suspensions such as biocolloids protein solutions and blood Systematically presenting the established facts in this multidisciplinary field this book is the perfect aid for academic researchers graduate students and industrial practitioners alike Continuous Biopharmaceutical Processes David Pfister, Lucrèce Nicoud, Massimo Morbidelli, 2018-10-11 This innovative reference provides a coherent and critical view on the potential benefits of a transition from batch to continuous processes in the biopharmaceutical industry with the main focus on chromatography It also covers the key topics of protein stability and protein conjugation addressing the chemical reaction and purification aspects together with their integration This book offers a fine balance between theoretical modelling and illustrative case studies between fundamental concepts and applied examples from the academic and industrial literature Scientists interested in the design of biopharmaceutical processes will find useful practical methodologies in particular for single column and multi column chromatographic processes **Intensification of Liquid-Liquid Processes** Laurence R. Weatherley, 2020-04-16 Explore and review novel techniques for intensifying transport and reaction in liquid liquid and related systems with this essential toolkit Topics include discussion of the principles of process intensification the nexus between process intensification and sustainable engineering and the fundamentals of liquid liquid contacting from an expert with over forty five years experience

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precipitation granulation grinding aerosol processes and spray drying as well as forms of delivery such as granules tablets dry powders and aerosols Readers will learn from real world examples how the primary particle properties and the structure and properties of the delivery form can lead to high performance products ranging from pharmaceuticals consumer goods and foods to specialty chemicals paints agricultural chemicals and minerals Understanding Process Dynamics and Control Costas Kravaris, Ioannis K. Kookos, 2021-04-08 A fresh look to process control State space and traditional approaches presented in parallel with relevant computer software Fundamentals of Molecular Bioengineering Luisa Di Paola, 2024-06-03 This textbook covers the scientific basics of molecular bioengineering a new field where technology meets biology and chemistry and the fundamental knowledge required for students to understand molecular mechanisms beyond biological phenomena The textbook focuses on the role of proteins in biomolecular machinery and it is divided into 2 parts Part I covers the molecular thermodynamics of biological systems and Part II discusses the computational aspects behind protein structure prediction and molecular dynamics In the first part of the textbook students will find comprehensive explanations of thermodynamics and statistical mechanics which are the basis to understand how molecular properties translate into macroscopic Part I also offers an introduction to proteins and concepts like intermolecular forces volumetric properties of fluids ionization equilibria and salting out and protein binding and protein protein interactions In the second part of the textbook students will learn about protein structure prediction and analysis systems biology and structure based protein networks and computational tools and approaches for molecular dynamics simulations and protein binding and protein protein interactions This textbook adds to the scholarly debate with a unique contribution addressing important new areas of biophysical chemistry and molecular biophysics not covered in currently available textbooks Given its breadth the textbook is suitable for courses in molecular biophysics biochemistry physical chemistry and bioengineering and will also appeal to researchers and professionals in these fields Part I of this book is a translation from its Italian original manuscript done with the help of artificial intelligence A subsequent human revision of the content was done by the author Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors **Commonly Asked Questions in Thermodynamics** Marc J. Assael, Geoffrey C. Maitland, Thomas Maskow, Urs von Stockar, William A. Wakeham, Stefan Will, 2022-08-05 CRC Press is pleased to introduce the new edition of Commonly Asked Questions in Thermodynamics an indispensable resource for those in modern science and engineering disciplines from molecular science engineering and biotechnology to astrophysics Fully updated throughout this edition features two new chapters focused on energy utilization and biological systems This edition begins by setting out the fundamentals of thermodynamics including its basic laws and overarching principles It provides explanations of those principles in an organized manner using questions that arise frequently from undergraduates in the classroom as the stimulus These early chapters explore the language of thermodynamics the first and second laws statistical mechanical

theory measurement of thermodynamic quantities and their relationships phase behavior in single and multicomponent systems electrochemistry and chemical and biochemical reaction equilibria The later chapters explore applications of these fundamentals to a diverse set of subjects including power generation with and without fossil fuels for transport industrial and domestic use heating decarbonization technologies energy storage refrigeration environmental pollution and biotechnology Data sources for the properties needed to complete thermodynamic evaluations of many processes are included The text is designed for readers to dip into to find an answer to a specific question where thermodynamics can provide some if not all of the answers whether in the context of an undergraduate course or not Thus its readership extends beyond conventional technical undergraduates to practicing engineers and also to the interested lay person who seeks to understand the discourse that surrounds the choice of particular technological solutions to current and future energy and material production problems

Thermodynamics with Chemical Engineering Applications Elias I. Franses, 2014-08-25 Master the principles of thermodynamics with this comprehensive undergraduate textbook carefully developed to provide students of chemical engineering and chemistry with a deep and intuitive understanding of the practical applications of these fundamental ideas and principles Logical and lucid explanations introduce core thermodynamic concepts in the context of their measurement and experimental origin giving students a thorough understanding of how theoretical concepts apply to practical situations A broad range of real world applications relate key topics to contemporary issues such as energy efficiency environmental engineering and climate change and further reinforce students understanding of the core material This is a carefully organized highly pedagogical treatment including over 500 open ended study questions for discussion over 150 varied homework problems clear and objective standards for measuring student progress and a password protected solution manual for instructors

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Numerical Methods with Chemical Engineering Applications Kevin D. Dorfman, Prodromos Daoutidis, 2017-01-11 Designed primarily for undergraduates but also graduates and practitioners this textbook integrates numerical methods and programming with applications from chemical engineering Combining mathematical rigor with an informal writing style it thoroughly introduces the theory underlying numerical methods its translation into MATLAB programs and its use for solving realistic problems Specific topics covered include accuracy convergence and numerical stability as well as stiffness and ill conditioning MATLAB codes are developed from scratch and their implementation is explained in detail all while assuming limited programming knowledge All scripts employed are downloadable and built in MATLAB functions are discussed and contextualised Numerous examples and homework problems from simple questions to

extended case studies accompany the text allowing students to develop a deep appreciation for the range of real chemical engineering problems that can be solved using numerical methods This is the ideal resource for a single semester course on numerical methods as well as other chemical engineering courses taught over multiple semesters **Volume Properties**
Emmerich Wilhelm,Trevor M Letcher,2014-11-25 Volumetric properties play an important role in research at the interface of physical chemistry and chemical engineering but keeping up with the latest developments in the field demands a broad view of the literature Presenting a collection of concise focused chapters this book offers a comprehensive guide to the latest developments in the field and a starting point for more detailed research The chapters are written by acknowledged experts covering theory experimental methods techniques and results on all types of liquids and vapours The editors work at the forefront of thermodynamics in mixtures and solutions and have brought together contributions from all areas related to volume properties offering a synergy of ideas across the field Graduates researchers and anyone working in the field of volumes will find this book to be their key reference

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