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Michael H. Peters

Molecular Thermodynamics And Transport Phenomena

Jean Pierre Boon, Sidney Yip



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Molecular Thermodynamics and Transport Phenomena Michael H. Peters, 2005-03-07 Many newly developing fields of science and engineering including nanotechnology protein engineering microfluidics etc require an in depth molecular understanding and description of matter Molecular Thermodynamics and Transport Phenomena Complexities of Scales in Space and Time provides a rigorous molecular and statistical mechanical basis for the classical fundamental molecular description of matter The author uniquely explores the disparities in spatial and temporal time scales in molecular mechanical dynamics and interactions that lead to the different observed behavior of matter including equilibrium vs nonequilibrium behavior phase states and irreversibility This book provides a modern comprehensive foundation for the classical molecular theory of matter that is demanded of today s advancing fields of science and technology *Molecular Thermodynamics and Transport Phenomena* Michael H. Peters, 2012 *Molecular Physical Chemistry for Engineering Applications* Florin Emilian Daneş, Silvia Daneş, Valeria Petrescu, Eleonora-Mihaela Ungureanu, 2021-07-06 This textbook introduces the molecular side of physical chemistry It offers students and practitioners a new approach to the subject by presenting numerous applications and solved problems that illustrate the concepts introduced for varied and complex technical situations The book offers a balance between theory tools and practical applications The text aims to be a practical manual for solving engineering problems in industries where processes depend on the chemical composition and physical properties of matter The book is organized into three main topics I the molecular structure of matter II molecular models in thermodynamics and III transport phenomena and mechanisms Part I presents methods of analysis of the molecular behavior in a given system while the following parts use these methods to study the equilibrium states of a material system and to analyze the processes that can take place when the system is in a state of non equilibrium in particular the transport phenomena Molecular Physical Chemistry for Engineering Applications is designed for upper level undergraduate and graduate courses in physical chemistry for engineers applied physical chemistry transport phenomena colloidal chemistry and transport transfer processes The book will also be a valuable reference guide for engineers technicians and scientists working in industry Offers modeling techniques and tools for solving exercises and practical cases Provides solutions and conclusions so students can follow results more closely Step by step problem solving enables students to understand how to approach complex issues **Fundamentals of Surface Thermodynamics** Ronaldo Gonçalves dos Santos, 2024-03-07 Interfacial phenomena play a crucial role in various industrial processes and daily operations These phenomena are related to the formation of emulsions and foams adsorption on solid and fluid interfaces wettability alteration and others that strongly impact the quality and cost of products and processes Understanding the interfacial phenomena encompasses inexorably the description of surface thermodynamics and the assessment of thermodynamic properties The book Fundamentals of Surface Thermodynamics introduces the basics of the thermodynamics of interface from a perspective of

chemical engineering thermodynamics and surface chemistry It provides insights into real life phenomena emphasizing the practical significance of abstract properties routinely dealt with by scientists and engineers The book is tailored for both graduate and undergraduate courses in chemistry and engineering schools The book content is particularly beneficial for industry professionals involved in oil gas fluid transportation nanotechnology and other operations with multiphase complex systems where the process effectiveness is affected by interfacial phenomena The Fundamentals of Surface Thermodynamics brings a comprehensive description of colloidal science ranging from conventional surfactant applications to responsive systems and nanomaterials applied to life science The author invites the reader on a journey into the fascinating world where small dimension entities breathe The book aims to inspire students and professionals to delve deep into the intricacies of interface thermodynamics thereby contributing to supporting education activities and enabling industrial solutions

Molecular Thermodynamics of Nonideal Fluids Lloyd L. Lee, 2016-02-06 *Molecular Thermodynamics of Nonideal Fluids* serves as an introductory presentation for engineers to the concepts and principles behind and the advances in molecular thermodynamics of nonideal fluids The book covers related topics such as the laws of thermodynamics entropy its ensembles the different properties of the ideal gas and the structure of liquids Also covered in the book are topics such as integral equation theories theories for polar fluids solution thermodynamics and molecular dynamics The text is recommended for engineers who would like to be familiarized with the concepts of molecular thermodynamics in their field as well as physicists who would like to teach engineers the importance of molecular thermodynamics in the field of engineering [Molecular Engineering Thermodynamics](#) Juan J. de Pablo, Jay D. Schieber, 2014-07-10 Building up gradually from first principles this unique introduction to modern thermodynamics integrates classical statistical and molecular approaches and is especially designed to support students studying chemical and biochemical engineering In addition to covering traditional problems in engineering thermodynamics in the context of biology and materials chemistry students are also introduced to the thermodynamics of DNA proteins polymers and surfaces It includes over 80 detailed worked examples covering a broad range of scenarios such as fuel cell efficiency DNA protein binding semiconductor manufacturing and polymer foaming emphasizing the practical real world applications of thermodynamic principles more than 300 carefully tailored homework problems designed to stretch and extend students understanding of key topics accompanied by an online solution manual for instructors and all the necessary mathematical background plus resources summarizing commonly used symbols useful equations of state microscopic balances for open systems and links to useful online tools and datasets [Transport Phenomena in Multiphase Flows](#) Roberto Mauri, 2023-06-12 This textbook provides a thorough presentation of the phenomena related to the transport of mass with and without electric charge momentum and energy It lays all the basic physical principles and then for the more advanced readers it offers an in depth treatment with advanced mathematical derivations and ends with some useful applications of the models and equations in specific settings The important idea

behind the book is to unify all types of transport phenomena describing them within a common framework in terms of cause and effect respectively represented by the driving force and the flux of the transported quantity The approach and presentation are original in that the book starts with a general description of transport processes providing the macroscopic balance relations of fluid dynamics and heat and mass transfer before diving into the mathematical realm of continuum mechanics to derive the microscopic governing equations at the microscopic level The book is a modular teaching tool and is used either for an introductory or for an advanced graduate course The last six chapters are of interest to more advanced researchers who might be interested in applications in physics mechanical engineering or biomedical engineering In particular this second edition of the book includes two chapters about electric migration that is the transport of mass that takes place in a mixture under the action of electro magnetic fields Electric migration finds many applications in the modeling of energy storage devices such as batteries and fuel cells All chapters are complemented with solved exercises that are essential to complete the learning process

School of Science and Humanities : Statistical Thermodynamics and Kinetic Theory Mr. Rohit Manglik, 2024-04-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Advances in Transport Phenomena Liqiu Wang, 2011-04-06 The term transport phenomena is used to describe processes in which mass momentum energy and entropy move about in matter Advances in Transport Phenomena provide state of the art expositions of major advances by theoretical numerical and experimental studies from a molecular microscopic mesoscopic macroscopic or megascopic point of view across the spectrum of transport phenomena from scientific enquiries to practical applications The annual review series intends to fill the information gap between regularly published journals and university level textbooks by providing in depth review articles over a broader scope than in journals The authoritative articles contributed by internationally leading scientists and practitioners establish the state of the art disseminate the latest research discoveries serve as a central source of reference for fundamentals and applications of transport phenomena and provide potential textbooks to senior undergraduate and graduate students This review book provides state of the art expositions of major advances by theoretical numerical and experimental studies from a molecular microscopic mesoscopic macroscopic or megascopic point of view across the spectrum of transport phenomena from scientific enquiries to practical applications This new volume of the annual review Advances in Transport Phenomena series provides in depth review articles covering the fields of mass transfer fluid mechanics heat transfer and thermodynamics This review book provides state of the art expositions of major advances by theoretical numerical and experimental studies from a molecular microscopic mesoscopic macroscopic or megascopic point of view across the spectrum of transport phenomena from scientific enquiries to practical applications This new volume of the annual review Advances in Transport Phenomena

series provides in depth review articles covering the fields of mass transfer fluid mechanics heat transfer and thermodynamics Molecular Hydrodynamics Jean Pierre Boon,Sidney Yip,1991-01-01 A graduate level introduction to the theory and applications of time correlation functions and the molecular theory of fluid dynamics Quite well organized the literature coverage is impressive Physics Today 110 illustrations **A Modern Course in Transport Phenomena** David C. Venerus,Hans Christian Öttinger,2018-03-15 This advanced text presents a unique approach to studying transport phenomena Bringing together concepts from both chemical engineering and physics it makes extensive use of nonequilibrium thermodynamics discusses kinetic theory and sets out the tools needed to describe the physics of interfaces and boundaries More traditional topics such as diffusive and convective transport of momentum energy and mass are also covered This is an ideal text for advanced courses in transport phenomena and for researchers looking to expand their knowledge of the subject The book also includes Novel applications such as complex fluids transport at interfaces and biological systems Approximately 250 exercises with solutions included separately designed to enhance understanding and reinforce key concepts End of chapter summaries Natural Gas Processing from Midstream to Downstream Nimir O. Elbashir,Mahmoud M. El-Halwagi,Ioannis G. Economou,Kenneth R. Hall,2019-02-04 A comprehensive review of the current status and challenges for natural gas and shale gas production treatment and monetization technologies Natural Gas Processing from Midstream to Downstream presents an international perspective on the production and monetization of shale gas and natural gas The authors review techno economic assessments of the midstream and downstream natural gas processing technologies Comprehensive in scope the text offers insight into the current status and the challenges facing the advancement of the midstream natural gas treatments Treatments covered include gas sweetening processes sulfur recovery units gas dehydration and natural gas pipeline transportation The authors highlight the downstream processes including physical treatment and chemical conversion of both direct and indirect conversion The book also contains an important overview of natural gas monetization processes and the potential for shale gas to play a role in the future of the energy market specifically for the production of ultra clean fuels and value added chemicals This vital resource Provides fundamental chemical engineering aspects of natural gas technologies Covers topics related to upstream midstream and downstream natural gas treatment and processing Contains well integrated coverage of several technologies and processes for treatment and production of natural gas Highlights the economic factors and risks facing the monetization technologies Discusses supply chain environmental and safety issues associated with the emerging shale gas industry Identifies future trends in educational and research opportunities directions and emerging opportunities in natural gas monetization Includes contributions from leading researchers in academia and industry Written for Industrial scientists academic researchers and government agencies working on developing and sustaining state of the art technologies in gas and fuels production and processing Natural Gas Processing from Midstream to Downstream provides a broad overview of the current status and

challenges for natural gas production treatment and monetization technologies The Molecular Theory of Gases and Liquids Joseph O. Hirschfelder, Charles F. Curtiss, R. Byron Bird, 1964-01-15 An essential cross disciplinary reference for molecular interactions Molecular Theory of Gases and Liquids offers a rigorous comprehensive treatment of molecular characteristics and behaviors in the gaseous and fluid states A unique cross disciplinary approach provides useful insight for students of chemistry chemical engineering fluid dynamics and a variety of related fields with thorough derivations and in depth explanations throughout Appropriate for graduate students and working scientists alike this book details advanced concepts without sacrificing depth of coverage or technical detail *Molecules in Interaction with Surfaces and Interfaces* Reinhold Haberlandt, Dieter Michel, Andreas Pöpl, Ralf Stannarius, 2004-03-15 The study of the interaction of molecules with surfaces and interfaces is of great importance for the understanding of adsorption and catalysis on solid surfaces the complex properties of molecules on fluid interfaces and the relationship between structure and functionality in macromolecular biological systems It is the aim of this volume to present and analyse in a comprehensive and accessible way the methodical achievements and the recent progress in this field The broadness of both scope and selection of the topics should help in particular non expert readers to become familiar with this exciting field of research **Statistical Thermodynamics and Properties of Matter** L. Couture, R. Zitoun, 2000-12-21 Statistical Thermodynamics and Properties of Matter is written with the advanced undergraduate and graduate student in mind Its aim is to familiarize the student with the approach that a physicist would take for example when tackling problems related to quantum mechanics or thermodynamics **A Course in Classical Physics 2—Fluids and Thermodynamics** Alessandro Bettini, 2016-05-24 This second volume covers the mechanics of fluids the principles of thermodynamics and their applications without reference to the microscopic structure of systems and the microscopic interpretation of thermodynamics It is part of a four volume textbook which covers electromagnetism mechanics fluids and thermodynamics and waves and light is designed to reflect the typical syllabus during the first two years of a calculus based university physics program Throughout all four volumes particular attention is paid to in depth clarification of conceptual aspects and to this end the historical roots of the principal concepts are traced Emphasis is also consistently placed on the experimental basis of the concepts highlighting the experimental nature of physics Whenever feasible at the elementary level concepts relevant to more advanced courses in quantum mechanics and atomic solid state nuclear and particle physics are included Each chapter begins with an introduction that briefly describes the subjects to be discussed and ends with a summary of the main results A number of Questions are included to help readers check their level of understanding The textbook offers an ideal resource for physics students lecturers and last but not least all those seeking a deeper understanding of the experimental basics of physics *Journal of Research of the National Institute of Standards and Technology*, 1999 Reports NIST research and development in the physical and engineering sciences in which the Institute is active These include physics chemistry engineering mathematics and computer sciences

Emphasis on measurement methodology and the basic technology underlying standardization

Advanced Topics in Contemporary Physics for Engineering Rui F. M. Lobo, Mário J. Pinheiro, 2022-12-21 This book highlights cutting edge topics in contemporary physics discussing exciting advances and new forms of thinking in evolving fields with emphases both on natural phenomena and applications to modern engineering It provides material for thought and practice in nanophysics plasma physics and electrodynamics Nanophysics and plasmas are synergic physical areas where the whole is more than the sum of the parts quantum atomic and molecular electrodynamics photonics condensed matter thermodynamics transport phenomena The authors emphasize both fundamentals and more complex concepts making the contents accessible as well challenging Nanoscale properties and physical phenomena are explained under the umbrella of quantum physics Advances made in the physical knowledge of the nanoworld and its metrology are addressed along with experimental achievements which have furthered studies of extreme weak forces present at nano or sub micron scales The book does not focus in detail on the diversity of applications in nanotechnology and instrumentation considering that the reader already has basic prior knowledge on that It also covers an introduction to plasma universe phenomenology the basics of advanced mathematics applied to the electromagnetic field longitudinal forces in the vacuum concepts of helicity and topological torsion SU 2 representation of Maxwell equations 2D representation of the electromagnetic field the use of the fractional derivative and ergotropic dynamics The chapters include theory applications bibliographic references and solved exercises The synergies of the book s topics demonstrate their potential in critical issues such as relieving humans from barriers imposed by energetic and entropic dependencies and penetrating the realm of weak forces at the nanoscale The book will boost both post graduate students and mature scientists to implement new scientific and technological projects

Introduction to Chemical Engineering Uche P. Nnaji, 2019-09-30 The field of chemical engineering is undergoing a global renaissance with new processes equipment and sources changing literally every day It is a dynamic important area of study and the basis for some of the most lucrative and integral fields of science Introduction to Chemical Engineering offers a comprehensive overview of the concept principles and applications of chemical engineering It explains the distinct chemical engineering knowledge which gave rise to a general purpose technology and broadest engineering field The book serves as a conduit between college education and the real world chemical engineering practice It answers many questions students and young engineers often ask which include How is what I studied in the classroom being applied in the industrial setting What steps do I need to take to become a professional chemical engineer What are the career diversities in chemical engineering and the engineering knowledge required How is chemical engineering design done in real world What are the chemical engineering computer tools and their applications What are the prospects present and future challenges of chemical engineering And so on It also provides the information new chemical engineering hires would need to excel and cross the critical novice engineer stage of their career It is expected that this book will enhance students understanding and performance in the field and the

development of the profession worldwide Whether a new hire engineer or a veteran in the field this is a must have volume for any chemical engineer s library *Product and Process Design* Jan Harmsen, André B. de Haan, Pieter L. J. Swinkels, 2024-05-20 Product and process design driving sustainable innovation is the 2nd edition of a comprehensive textbook for product and process design courses at BSc MSc EngD and PhD level It covers both heuristics based design methods as well as systems engineering approaches It contains specific methods to co design products and processes so that both designs are better than when these designs are made separately This integrated combination makes the book unique For making designs that contribute to the Sustainable Development Goals of the United Nations specific methods are provided for the People Planet and Prosperity dimensions This second edition of the book includes examples and exercises for each design method which makes it very suitable for teaching purposes The book is furthermore of interest to industrial process and product developers for many industry branches as it provides methods for design modelling and experimental validation for each innovation stage It is also very useful for R D managers as it provides guidelines for essential activities in each innovation stage discovery concept feasibility development detailed engineering leading to successful implementations of new processes and new products

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