CAMBRIDGE SERIES IN CHEMICAL ENGINEERING

Modeling Vapor-Liquid Equilibria

Cubic Equations of State and Their Mixing Rules



Hasan Orbey and Stanley I. Sandler

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Jim Litster

Modeling Vapor-Liquid Equilibria Hasan Orbey, Stanley I. Sandler, 1998-05-28 Reviews the latest developments in a subject relevant to professionals involved in the simulation and design of chemical processes includes disk of computer **Equations of State for Fluids and Fluid Mixtures** J.V. Sengers, R.F. Kayser, C.J. Peters, H.J. White, 2000-10-30 This book has been prepared under the auspices of Commission I 2 on Thermodynamics of the International Union of Pure and Applied Chemistry IUPAC The authors of the 18 chapters are all recognized experts in the field The book gives an up to date presentation of equations of state for fluids and fluid mixtures All principal approaches for developing equations of state are covered. The theoretical basis and practical use of each type of equation is discussed and the strength and weaknesses of each is addressed Topics addressed include the virial equation of state cubic equations and generalized van der Waals equations perturbation theory integral equations corresponding stated and mixing rules Special attention is also devoted to associating fluids polydisperse fluids polymer systems self assembled systems ionic fluids and The Thermodynamics of Phase and Reaction Equilibria Ismail Tosun, 2021-06-17 The fluids near critical points Thermodynamics of Phase and Reaction Equilibria Second Edition provides a sound foundation for understanding abstract concepts of phase and reaction equilibria e g partial molar Gibbs energy fugacity and activity and shows how to apply these concepts to solve practical problems using numerous clear examples Available computational software has made it possible for students to tackle realistic and challenging problems from industry The second edition incorporates phase equilibrium problems dealing with nonideal mixtures containing more than two components and chemical reaction equilibrium problems involving multiple reactions Computations are carried out with the help of Mathcad Clear layout coherent and logical organization of the content and presentation suitable for self study Provides analytical equations in dimensionless form for the calculation of changes in internal energy enthalpy and entropy as well as departure functions and fugacity coefficients All chapters have been updated primarily through new examples Includes many well organized problems with answers which are extensions of the examples enabling conceptual understanding for quantitative real problem solving Provides Mathcad worksheets and subroutines Includes a new chapter linking thermodynamics with reaction engineering A complete Instructor s Solutions Manual is available as a textbook resource Fundamentals and Practice in Statistical Thermodynamics Jianzhong Wu, John M. Prausnitz, 2024-08-20 Bridge the gap between thermodynamic theory and engineering practice with this essential textbook Thermodynamics is a discipline which straddles the fields of chemistry physics and engineering and has long been a mainstay of undergraduate and graduate curricula Conventional thermodynamics courses however often ignore modern developments in statistical mechanics such as molecular simulation methods cooperative phenomena phase transitions universality as well as liquid state and polymer theories despite their close relevance to both fundamental research and engineering practice Fundamentals and Practice in Statistical Thermodynamics fills this gap with an essential

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Jaubert, Romain Privat, 2021-06-25 The selection of a relevant thermodynamic model is a prerequisite for the simulation and design of processes in the chemical and energy industries In practice this choice is often a real problem for the engineer or researcher who is not a specialist in thermodynamics In this book we present the main methodologies governing the choice of a thermodynamic model adapted to the user's needs Although this guide is deliberately concise it nevertheless offers several levels of study Beyond the complete model selection algorithms it allows the reader to take a step back from the various thermodynamic modelling approaches and to understand in substance how to calculate thermodynamic properties and phase diagrams according to the chosen approach it also highlights the strengths and weaknesses of most of the models available in process engineering software Page 4 of cover Optimization for Chemical and Biochemical Engineering Vassilios S. Vassiliadis, Walter Kähm, Ehecatl Antonio del Rio Chanona, Ye Yuan, 2021-01-14 Discover the subject of optimization in a new light with this modern and unique treatment Includes a thorough exposition of applications and algorithms in sufficient detail for practical use while providing you with all the necessary background in a self contained manner Features a deeper consideration of optimal control global optimization optimization under uncertainty multiobjective optimization mixed integer programming and model predictive control Presents a complete coverage of formulations and instances in modelling where optimization can be applied for quantitative decision making As a thorough grounding to the subject covering everything from basic to advanced concepts and addressing real life problems faced by modern industry this is a perfect tool for advanced undergraduate and graduate courses in chemical and biochemical engineering 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 Chromatoaraphic *Processes* Roger-Marc Nicoud, 2015-04-20 A result oriented practical guide to key approaches methodologies and tools for designing modelling and simulating chromatographic processes Distillation Theory and its Application to Optimal **Design of Separation Units** F. B. Petlyuk, 2004-10-18 Originally published in 2004 Distillation Theory and Its Application to Optimal Design of Separation Units presents a clear multidimensional geometric representation of distillation theory that is

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