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Modeling Vapor–Liquid Equilibria

**Cubic Equations of State
and Their Mixing Rules**



Hasan Orbey and Stanley I. Sandler

Modeling Vapor Liquid Equilibria Cubic Equations Of State And Their Mixing Rules

Juan J. de Pablo, Jay D. Schieber



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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 states and mixing rules Special attention is also devoted to associating fluids polydisperse fluids polymer systems self assembled systems ionic fluids and fluids near critical points

The Thermodynamics of Phase and Reaction Equilibria Ismail Tosun, 2021-06-17 The 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

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Thermodynamics of Solutions Eli Ruckenstein,Ivan L. Shulgin,2009-06-17 This book consists of a number of papers regarding the thermodynamics and structure of multicomponent systems that we have published during the last decade Even though they involve different topics and different systems they have something in common which can be considered as the signature of the present book First these papers are concerned with difficult or very nonideal systems i e systems with very strong interactions e g hyd gen bonding between components or systems with large differences in the partial molar v umes of the components e g the aqueous solutions of proteins or systems that are far from normal conditions e g critical or near critical mixtures Second the conventional th modynamic methods are not sufficient for the accurate treatment of these mixtures Last but not least these systems are of interest for the pharmaceutical biomedical and related ind tries In order to meet the thermodynamic challenges involved in these complex mixtures we employed a variety of traditional methods but also new methods such as the fluctuation t ory of Kirkwood and Buff and ab initio quantum mechanical techniques The Kirkwood Buff KB theory is a rigorous formalism which is free of any of the proximations usually used in the thermodynamic treatment of multicomponent systems This theory appears to be very fruitful when applied to the above mentioned difficult systems

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Perfusion Cell Culture Processes for Biopharmaceuticals Moritz Wolf,Jean-Marc Bielser,Massimo Morbidelli,2020-08-06 This book is a monography about perfusion cell cultures for the production of biopharmaceuticals such as therapeutic proteins i e biomolecules like monoclonal antibodies and describes the fundamentals design and operation of these processes Context is given in the first chapters to understand the state of the art of the technology We then give an overview of the challenges and objectives in operating mammalian cell perfusion cultures and provide guidelines for the design and setup of lab scale bioreactor systems and the required control structure to achieve stable operation Scale down devices and PAT tools are described in the context of continuous manufacturing and guidelines for process optimization are given using a variety of case studies to illustrate different approaches Scale up is also adressed with a strong focus on bioreactor aeration and mixing shear stress and cell retention device Finally a general introduction for the application of mechanistic and statistic models in bioreactor process development and optimization is given in the last chapter

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