

Vapor-Liquid Equilibrium of Binary Mixtures in the Extended Critical Region, Vol. 1: Thermodynamic Model (Classic Reprint) (Paperback)



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Reviews

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(Madyson Rutherford)

VAPOR-LIQUID EQUILIBRIUM OF BINARY MIXTURES IN THE EXTENDED CRITICAL REGION, VOL. 1: THERMODYNAMIC MODEL (CLASSIC REPRINT) (PAPERBACK)



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Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Vapor-Liquid Equilibrium of Binary Mixtures in the Extended Critical Region, Vol. 1: Thermodynamic Model There is, therefore, a need for a current and detailed explanation of the theory and techniques, which this report is intended to satisfy. The mostly self - contained exposition should be useful for a novice as well as for an individual, of either scientific or engineering background, experienced in phase equilibrium calculations. Although this first report of a series of two contains many new results and insights not published previously, the primary justification for the work is its wide - ranging success in correlating vle data as described in Part II of this series. Furthermore, the Leung - Griffiths formalism is in part rigorous thermodynamics and in part approximation and assumption. Some of our newly introduced parameters can be given heuristic justification, whereas others are purely empirical. The exposition is organized to make clear the logical structure of the method, to identify what is exact and what is approximate, and to present arguments justifying the approximations. In Sec. 2 we define the transformed variables of the Leung - Griffiths model and translate the fundamental laws of thermodynamics into relationships among these variables. The description to this point is general and devoid of assumptions and approximations. With the proper motivation, in Sec. 3 the equation specifying the independent variable (thermodynamic potential), as a function of the dependent variables, is constructed. This step corresponds in the conventional approach to the specification of an equation of state. Specific emphasis is placed on the conformity with simple scaling - law behavior and the thermodynamic consistency of the model. In Secs. 4 and 5, certain heretofore unspecified functions of the independent variables...

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