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Phase Equilibria In Chemical Engineering

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Phase Equilibria In Chemical Engineering by Stanley M. Walas

Phase equilibria in chemical engineering This edition published in 1985 by Butterworth in Boston, Edition Notes Bibliography: p. 639-658. Includes indexes. Classifications Dewey Decimal Class 660.2/963 Library of Congress TP156.E65 W34 1985 The Physical Object Pagination xvi, 671 p. : Number of pages 671 ID ...

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5.0 out of 5 stars This text is an excellent presentation of phase equilibria. Reviewed in the United States on May 1, 1998 This text presents the topics of equations of state,activity coefficients, phase diagrams and thermodynamic functions pertinent to the understanding and calculation of phase equilibria in chemical engineering application.

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Phase equilibrium is the study of the equilibrium which exists between or within different states of matter namely solid, liquid and gas. Equilibrium is defined as a stage when chemical potential of any component present in the system stays steady with time. Phase is a region where the intermolecular interaction is spatially uniform or in [...]

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The four cardinal points of phase equilibrium engineering are: the chemical plant or process, the laboratory, the modeling of phase equilibria and the simulator. The harmonization of all these components to obtain a better design or operation is the ultimate goal of phase equilibrium engineering.

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A thermodynamic assessment of the urea-biuret-water ternary system and its binary subsystems has been made. The Margules model has been applied for the description of excess Gibbs energies of binary solutions, and the properties of ternary solutions have been assessed by using the Muggiani method. Thermodynamic properties of (NH₂CO)₂NH-(NH₂)₂CO (I) and (NH₂CO)₂NH-0.7H₂O (II) have been ...

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486 Advances in Chemical Engineering Consequently, the equilibrium condition a of multiphase mixture is equality of temperature, pressure, and chemical potential i in all the phases in equilibrium. 3. Description of phase diagrams 3.1 Pure compound 3.1.1 Description