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emphasis is placed on intuitively based mathematical models for chemical transport and transformations although developed for a one semester graduate course chemical fate and transport in the environment second edition is also an essential reference for environmental practitioners in industry consulting and government agencies book jacket

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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bibliographical footnotes v 1 text v 2 notes

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