

Callen Thermodynamics Solution

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providing the necessary basis for any developments of theoretical thermodynamic models this book provides a complete collection of practical thermodynamic data for a variety of applications including basic and applied chemistry chemical engineering thermodynamic research computational modeling membrane science and technology and environmental and green chemistry the data which includes such developments as vapor liquid and liquid liquid equilibria low and high pressure equilibrium data enthalpic and volumetric data and second virial coefficients is necessary when studying intermolecular interactions and gaining insights into the molecular nature of mixtures

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this book was first published in 1991 it considers the concepts and theories relating to mostly aqueous systems of activity coefficients

this is the first self contained book on the thermodynamics and critical phenomena of polymer solutions ranging from the rather elementary level to the advanced and up to date level the book covers the rigorous theories of phase equilibrium computer experiments based on these theories as well as actual experiments molecular fractionation and application to membrane and fiber production an extensive list of references and literature data on the thermodynamic interaction χ parameter critical point fractionation and polymer blends is also provided this book should prove invaluable for courses on polymer science thermodynamics and polymer solutions at graduate university and polytechnic level

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