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Introductory Thermodynamics

By Pierre Infelta

Brown Walker Press (FL), United States, 2004. Paperback. Book Condition: New. 216 x 140 mm. Language: English Brand New Book ***** Print on Demand *****. The fundamental aspects of classical thermodynamics are presented in a simple compact way. The equations derived are illustrated by numerous (111) examples, often direct application of the relations just obtained. The (four) laws of thermodynamics are presented and illustrated. The need to define thermodynamic temperature, the meaning of auxiliary thermodynamic functions, the origin, usefulness and use of partial molar quantities are all examined. Gaseous systems, phase equilibria and chemical reactions are quantitatively treated. It is shown how chemical reactions can provide work. Ideal and non ideal solutions are presented with the various standard states and activity coefficients. This book will be of use to a wide audience of students and professionals in the fields of Chemistry, Chemical Engineering, Materials Science and Bio related Sciences. REVIEW Dr. Infelta has prepared a compact Introductory Thermodynamics book which will serve well for mature students who need a command of this important field. Undergraduate students will find the presentation logical, the examples thoughtful, and the coverage thorough. Students and professionals for whom memory or mastery of previous thermodynamics courses have...



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