Thermodynamics

An Engineering Approach

Tenth Edition

Solutions Manual



Jie Chen, Yiwei Feng, Scott MacKay

Thermodynamics J. P. O'Connell, J. M. Haile, 2005-05-16 Thermodynamics Fundamentals and Applications is a 2005 text for a first graduate course in Chemical Engineering The focus is on macroscopic thermodynamics discussions of modeling and molecular situations are integrated throughout Underpinning this text is the knowledge that while thermodynamics describes natural phenomena those descriptions are the products of creative systematic minds Nature unfolds without reference to human concepts of energy entropy or fugacity Natural complexity can be organized and studied by thermodynamics methodology The power of thermodynamics can be used to advantage if the fundamentals are understood This text s emphasis is on fundamentals rather than modeling Knowledge of the basics will enhance the ability to combine them with models when applying thermodynamics to practical situations While the goal of an engineering education is to teach effective problem solving this text never forgets the delight of discovery the satisfaction of grasping intricate concepts and the stimulation of the scholarly atmosphere Chemical Engineering Thermodynamics AHUJA, PRADEEP, 2008-12 This book offers a full account of thermodynamic systems in chemical engineering It provides a solid understanding of the basic concepts of the laws of thermodynamics as well as their applications with a thorough discussion of phase and chemical reaction equilibria At the outset the text explains the various key terms of thermodynamics with suitable examples and then thoroughly deals with the virial and cubic equations of state by showing the PVT pressure molar volume and temperature relation of fluids It elaborates on the first and second laws of thermodynamics and their applications with the help of numerous engineering examples The text further discusses the concepts of exergy standard property changes of chemical reactions thermodynamic property relations and fugacity The book also includes detailed discussions on residual and excess properties of mixtures various activity coefficient models local composition models and group contribution methods In addition the text focuses on vapour liquid and other phase equilibrium calculations and analyzes chemical reaction equilibria and adiabatic reaction temperature for systems with complete and incomplete conversion of reactants Key Features Includes a large number of fully worked out examples to help students master the concepts discussed Provides well graded problems with answers at the end of each chapter to test and foster students conceptual understanding of the subject The total number of solved examples and end chapter exercises in the book are over 600 Contains chapter summaries that review the major concepts covered The book is primarily designed for the undergraduate students of chemical engineering and its related disciplines such as petroleum engineering and polymer engineering It can also be useful to professionals The Solution Manual containing the complete worked out solutions to chapter end exercises and problems is available for instructors

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