

THE ELEMENTS OF
Classical
Thermodynamics

A. B. PIPPARD

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Kathleen Armour



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properties of a given mixture dictate whether it may undergo a self sustaining reaction liberating heat in the process Thermodynamic information in the existing scientific literature regarding thermitic combinations is scattered and incomplete Currently a comprehensive overview of this nature would be of great use to those working in the areas of pyrotechnics pyrometallurgy high temperature chemistry and materials science Thermitic Thermodynamics solves this problem by describing the results of calculations on over 800 combinations of metal metalloid and metal oxide reactants Other features include A first of its kind adiabatic survey of binary thermitic reactions Provides an overview of key trends in exothermic metal metal oxide reactivity Describes the role of non oxide product formation in thermitic systems Explains how to interpret the results of thermochemical calculations effectively An invaluable resource this book provides an accessible introduction for students and is also an enduring guide for professionals

Elements of Statistical Thermodynamics Leonard K. Nash, 2012-03-08 This concise elementary treatment illustrates the ways in which an atomic molecular perspective yields new insights and powers operative in the realms of macroscopic thermodynamics Starting with an analysis of some very simple microcanonical ensembles it proceeds to the Boltzmann distribution law and a systematic exploration of the proper formulation evaluation and application of partition functions The concepts of equilibrium and entropy thus acquire new significance and readers discover how thermodynamic parameters may be calculated from spectroscopic data Encompassing virtually all of the forms of statistical mechanics customary to undergraduate physical chemistry books this brief text requires prior acquaintance with only the rudiments of the calculus and a few of the simplest propositions of classical thermodynamics Appropriate for introductory college chemistry courses it further lends itself to use as a supplementary text for independent study by more advanced students

Statistical Thermodynamics and Microscale Thermophysics Van P. Carey, 1999-08-13 This book provide an interwoven development of classical and statistical thermodynamic principles from a modern perspective

Thermodynamics in Geochemistry Greg M. Anderson, David A. Crerar, 1993-06-17 This textbook and reference outlines the fundamental principles of thermodynamics emphasizing applications in geochemistry The work is distinguished by its comprehensive balanced coverage and its rigorous presentation The authors bring years of teaching experience to the work and have attempted to particularly address those areas where other texts on the subject have provided inadequate coverage A thorough review of the necessary mathematics is presented early on both as a refresher for those with a background in university calculus and for the benefit of those coming to the subject for the first time The text is written for students in advanced undergraduate or graduate level geochemistry as well as for all researchers in this field

Energy, the Subtle Concept Jennifer Coopersmith, 2015 This book explains the idea of energy by tracing the story of its discovery from Galileo through to Einstein It explains the physics using the minimum of mathematics presenting both a gripping historical narrative and a fascinating introduction to an elusive physical concept

Thermodynamics in Earth and Planetary Sciences Jibamitra Ganguly, 2009-06-29 Based on a university course this book provides an exposition of a

large spectrum of geological geochemical and geophysical problems that are amenable to thermodynamic analysis It also includes selected problems in planetary sciences relationships between thermodynamics and microscopic properties particle size effects methods of approximation of thermodynamic properties of minerals and some kinetic ramifications of entropy production The textbook will enable graduate students and researchers alike to develop an appreciation of the fundamental principles of thermodynamics and their wide ranging applications to natural processes and systems *An Introduction to Theoretical Fluid Mechanics* Stephen Childress, 2009-10-09 This book gives an overview of classical topics in fluid dynamics focusing on the kinematics and dynamics of incompressible inviscid and Newtonian viscous fluids but also including some material on compressible flow The topics are chosen to illustrate the mathematical methods of classical fluid dynamics The book is intended to prepare the reader for more advanced topics of current research interest

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