



Chemical Energy and Exergy: An Introduction to Chemical Thermodynamics for Engineers (Hardback)

By Norio Sato

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2004. Hardback. Book Condition: New. New.. 244 x 168 mm. Language: English . Brand New Book. This book is a beginners introduction to chemical thermodynamics for engineers. In the textbook, efforts have been made to visualize as clearly as possible the main concepts of thermodynamic quantities such as enthalpy and entropy, thus making them more perceivable. Furthermore, intricate formulae in thermodynamics have been discussed as functionally unified sets of formulae to understand their meaning rather than to mathematically derive them in detail. In this textbook, the affinity of irreversible processes, defined by the second law of thermodynamics, has been treated as the main subject, rather than the equilibrium of chemical reactions. The concept of affinity is applicable in general not only to the processes of chemical reactions but also to all kinds of irreversible processes. This textbook also includes electrochemical thermodynamics in which, instead of the classical phenomenological approach, molecular science provides an advanced understanding of the reactions of charged particles such as ions and electrons at the electrodes. Recently, engineering thermodynamics has introduced a new thermodynamic potential called exergy, which essentially is related to the concept of the affinity of irreversible processes. This textbook...



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