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Analysis of adsorption data, which are relevant for real-life applications to industrial effluents and groundwater. Overall, the book equips readers with a general perspective of the potential that adsorption processes hold for the removal of emerging water pollutants. It can readily be adopted as part of special courses on environmental engineering, adsorption and water treatment for upper undergraduate and graduate students. Furthermore, the book offers a valuable resource for researchers in water production control, as well as for practitioners interested in applying adsorption processes to real-world problems in water treatment and related areas.

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Presents a comprehensive and rigorous treatment of the subject from the classical perspective to offer a problem-solving methodology that encourages systematic thinking. Noted for its treatment of the second law, this text clearly presents both theory and application. The presentation of chemical availability has been extended by a cutting-edge discussion of standard chemical availability. Design applications and problems have been updated to include economic considerations. Environmental topics have also been expanded and updated. The new version of Interactive Thermodynamics (IT) is a powerful windows-based software program that now includes equation-solver, printing, graphing, data retrieval and

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Engineering with relation applications, updated appendices, and an increased number of thermodynamic and kinetic data for chemical species. While it is primarily intended for undergraduate students at the junior/senior level, the breadth and scope of this book make it a valuable resource for introductory graduate courses and a useful reference for environmental engineers.

This course aims to connect the principles, concepts, and laws/postulates of classical and statistical thermodynamics to applications that require quantitative knowledge of thermodynamic properties from a macroscopic to a molecular level. It covers

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Their basic postulates of classical thermodynamics and their application to transient open and closed systems, criteria of stability and equilibria, as well as constitutive property models of pure materials and mixtures emphasizing molecular-level effects using the formalism of statistical mechanics. Phase and chemical equilibria of multicomponent systems are covered. Applications are emphasized through extensive problem work relating to practical cases.

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

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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

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This book 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 discusses the relation between exergy and affinity and explains the exergy balance diagram and exergy vector diagram applicable to exergy analyses in chemical manufacturing processes. This textbook is written in the hope that the readers understand in a broad way the fundamental concepts of energy and exergy from chemical thermodynamics in practical applications.

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