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alternate between the development
of thermodynamic principles and the
correlation and use of
thermodynamic properties as well as
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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

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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

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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.

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processes. This textbook is written in
the hope that the readers understand
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applications. Finishing this book, the readers may easily step forward further into an advanced text of their specified line. - Visualizes the main concepts of thermodynamics to show the meaning of the quantities and formulae. - Focuses mainly on the affinity of irreversible processes and

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the related concept of exergy. -
Provides an advanced understanding
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The aim of this contemporary
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