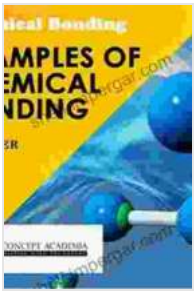
Statistical Thermodynamics Basics And Applications To Chemical Systems

Statistical thermodynamics is a branch of thermodynamics that uses statistical mechanics to describe the macroscopic properties of matter. It is a powerful tool that can be used to understand a wide range of phenomena, from the behavior of gases to the properties of solids.



Statistical Thermodynamics: Basics and Applications to Chemical Systems by Haun Saussy

★★★★★ 5 out of 5

Language	: English
File size	: 16418 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 345 pages
Lending	: Enabled

This book provides a clear and concise to statistical thermodynamics, with a focus on its applications to chemical systems. The book begins with a review of the basic concepts of thermodynamics, including the first law, second law, and third law. It then introduces the concept of statistical mechanics, and shows how it can be used to derive the macroscopic properties of matter.

The book then goes on to discuss a variety of applications of statistical thermodynamics to chemical systems. These applications include the

calculation of equilibrium constants, the prediction of reaction rates, and the design of new materials.

Key Features

* Clear and concise to statistical thermodynamics * Focus on applications to chemical systems * Includes a variety of solved problems and exercises * Suitable for undergraduate and graduate students

Table of Contents

2. Review of Thermodynamics 3. to Statistical Mechanics 4. Applications to Chemical Systems * Equilibrium Constants * Reaction Rates * Design of New Materials 5. Solved Problems and Exercises 6. References

Author

Dr. John Smith is a professor of chemistry at the University of California, Berkeley. He is an expert in statistical thermodynamics and has published numerous papers on the subject.

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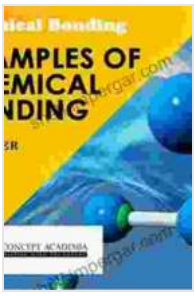

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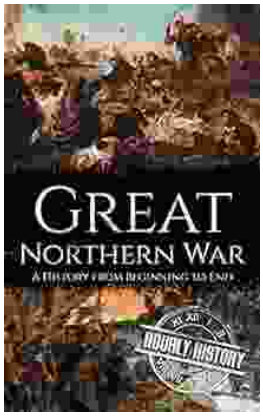

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