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Statistical Thermodynamics: Fundamentals and Applications ...

The reader is assumed to have some basic knowledge of thermodynamics. This book consists of two parts - Fundamentals (Part1) and Applications (part2). The aim of part1 is to adopt readers to the language of statistical thermodynamics.

Statistical mechanics - Wikipedia

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Statistical thermodynamics. The primary goal of statistical thermodynamics (also known as equilibrium statistical mechanics) is to derive the classical thermodynamics of materials in terms of the properties of their constituent particles and the interactions between them.

Statistical Thermodynamics: Fundamentals and Applications ...

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Statistical Thermodynamics Fundamentals And Applications

Statistical Thermodynamics: Fundamentals and Applications discusses the fundamentals and applications of statistical thermodynamics for beginning graduate students in the engineering sciences. This book features a step-by-step development of the subject with few presumptions concerning previous exposure of students to statistics, quantum mechanics or spectroscopy.

Statistical Thermodynamics: Fundamentals and Applications ...

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Basic Principles of Classical and Statistical Thermodynamics

The Maxwell-Boltzmann formulation of statistical mechanics and applications to ideal gases, solids, radiation, and laser diagnostics. The Gibbs formulation of statistical mechanics and application to real gases. ... Statistical Thermodynamics: Fundamentals and Applications, Normand M. Laurendeau, First Edition, Cambridge Press, 2005, ISBN ...

Statistical Thermodynamics Course | Engineering Courses ...

The book goes from the fundamentals up to several applications in different scientific fields. The content of the book has been classified in six sections: Classical Thermodynamics, Statistical Thermodynamics, Property Prediction in Thermodynamics, Material and Products, Non Equilibrium and Thermodynamics in Diverse Areas.

Statistical Thermodynamics Fundamentals and Applications ...

This 2006 textbook discusses the fundamentals and applications of statistical thermodynamics for beginning graduate students in the physical and engineering sciences. Building on the prototypical Maxwell-Boltzmann method and maintaining a step-by-step development of the subject, this book assumes the reader has no previous exposure to statistics, quantum mechanics or spectroscopy.

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Statistical Thermodynamics by Normand M. Laurendeau

properties of matter in equilibrium states is the task of statistical thermodynamics while the study of relationships among the thermodynamic properties alone is generally the topic of classical thermodynamics. In the past it has been customary for textbooks and their readers to make a sharp distinction between the two disciplines.

Statistical Thermodynamics: With Applications To The Life ...

This book discusses the fundamentals and applications of statistical thermodynamics for beginning graduate students in the engineering sciences. This book features a step-by-step development of the subject with few presumptions concerning previous exposure of students to statistics, quantum mechanics or spectroscopy.

Statistical Thermodynamics - Fundamentals and Applications ...

This book is based on many years of teaching statistical and thermal physics. It assumes no previous knowledge of thermodynamics, kinetic theory, or probability---the only prerequisites are an elementary knowledge of classical and modern physics, and of multivariable calculus.