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Statistical mechanics is concerned with defining the thermodynamic properties of a macroscopic sample in terms of the properties of the microscopic systems of which it is composed. The previous book Introduction to Statistical

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Mechanics provided a clear, logical, and self-contained treatment of equilibrium statistical mechanics starting from Boltzmann's two statistical assumptions, and presented a wide variety of applications to diverse physical

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assemblies. An appendix provided an introduction to non-equilibrium statistical mechanics through the Boltzmann equation and its extensions. The coverage in that book was enhanced and extended through the inclusion of many

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accessible problems. The current book provides solutions to those problems. These texts assume only introductory courses in classical and quantum mechanics, as well as familiarity with multi-variable calculus and the essentials of

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complex analysis. Some knowledge of thermodynamics is also assumed, although the analysis starts with an appropriate review of that topic. The targeted audience is first-year graduate students and advanced undergraduates, in

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physics, chemistry, and the related physical sciences. The goal of these texts is to help the reader obtain a clear working knowledge of the very useful and powerful methods of equilibrium statistical mechanics and to enhance the

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understanding and appreciation of the more advanced texts.

This manual contains worked out solutions for selected problems throughout the text.

Complex systems that bridge the traditional disciplines of physics,

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chemistry, biology, and materials science can be studied at an unprecedented level of detail using increasingly sophisticated theoretical methodology and high-speed computers. The aim of this book is to prepare burgeoning

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users and developers to become active participants in this exciting and rapidly advancing research area by uniting for the first time, in one monograph, the basic concepts of equilibrium and time-dependent statistical mechanics with the

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modern techniques used to solve the complex problems that arise in real-world applications. The book contains a detailed review of classical and quantum mechanics, in-depth discussions of the most commonly used ensembles

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simultaneously with modern computational techniques such as molecular dynamics and Monte Carlo, and important topics including free-energy calculations, linear-response theory, harmonic baths and the generalized Langevin

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equation, critical phenomena, and advanced conformational sampling methods. Burgeoning users and developers are thus provided firm grounding to become active participants in this exciting and rapidly advancing research area,

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while experienced practitioners will find the book to be a useful reference tool for the field.

This textbook covers the basic principles of statistical physics and thermodynamics. The text is pitched at the level equivalent to

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first-year graduate studies or advanced undergraduate studies. It presents the subject in a straightforward and lively manner. After reviewing the basic probability theory of classical thermodynamics, the author addresses the standard

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topics of statistical physics. The text demonstrates their relevance in other scientific fields using clear and explicit examples. Later chapters introduce phase transitions, critical phenomena and non-equilibrium phenomena.

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Statistical and Thermal Physics
A Modern Approach to Quantum
Mechanics
Equilibrium Statistical Physics
Statistical Mechanics of Phase
Transitions
Solutions Manual for Statistical

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Mechanics

***A thorough understanding
of statistical mechanics
depends strongly on the
insights and
manipulative skills that
are acquired through the***

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*solving of problems.
Problems on Statistical
Mechanics provides over
120 problems with model
solutions, illustrating
both basic principles
and applications that*

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range from solid-state physics to cosmology. An introductory chapter provides a summary of the basic concepts and results that are needed to tackle the problems,

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and also serves to establish the notation that is used throughout the book. The problems themselves occupy five chapters, progressing from the simpler aspects

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*of thermodynamics and
equilibrium statistical
ensembles to the more
challenging ideas
associated with strongly
interacting systems and
nonequilibrium*

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processes. Comprehensive solutions to all of the problems are designed to illustrate efficient and elegant problem-solving techniques. Where appropriate, the authors

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incorporate extended discussions of the points of principle that arise in the course of the solutions. The appendix provides useful mathematical formulae.

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This introductory textbook for standard undergraduate courses in thermodynamics has been completely rewritten to explore a greater number of topics, more clearly

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and concisely. Starting with an overview of important quantum behaviours, the book teaches students how to calculate probabilities in order to provide a

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*firm foundation for
later chapters. It
introduces the ideas of
classical thermodynamics
and explores them both
in general and as they
are applied to specific*

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processes and interactions. The remainder of the book deals with statistical mechanics. Each topic ends with a boxed summary of ideas and

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results, and every chapter contains numerous homework problems, covering a broad range of difficulties. Answers are given to odd-

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numbered problems, and solutions to even-numbered problems are available to instructors at www.cambridge.org/9781107694927.

Exercise problems in

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both thermodynamic and
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thermodynamics at the*

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macroscopic level.

***Presents essential ideas
on critical phenomena
developed over the last
decade in simple,
qualitative terms. This
new edition maintains***

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*the simple structure of
the first and puts new
emphasis on pedagogical
considerations.*

*Thermostatistics is
incorporated into the
text without eclipsing*

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*macroscopic
thermodynamics, and is
integrated into the
conceptual framework of
physical theory.
Concepts in Thermal
Physics*

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***Fundamentals of
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Thermodynamics and an***

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***Introduction to
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Introductory Statistical
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instructive and highly readable
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processes, it places greater focus on thermodynamics, especially the kinetics of phase transitions. The chapter on Bose–Einstein condensation has been revised to reflect improvements in the field. The

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edition also covers stochastic processes in greater depth, with a more detailed treatment of the Langevin equation. It provides new exercises and a complete solutions manual for qualifying instructors.

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important developments in classical statistical mechanics over the last thirty years, and guides readers to the very threshold of today's cutting-edge research. Statistical Mechanics in a Nutshell zeroes in on the

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most relevant and promising advances in the field, including the theory of phase transitions, generalized Brownian motion and stochastic dynamics, the methods underlying Monte Carlo simulations, complex

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systems--and much, much more. The essential resource on the subject, this book is the most up-to-date and accessible introduction available for graduate students and advanced undergraduates seeking a

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succinct primer on the core ideas of statistical mechanics. Provides the most concise, self-contained introduction to statistical mechanics Focuses on the most promising advances, not complicated calculations

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Requires only elementary calculus and elementary mechanics Guides readers from the basics to the threshold of modern research Highlights the broad scope of applications of statistical mechanics

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Physical Chemistry
Principles and Applications
Solutions Manual Second Edition
Lectures On Phase Transitions
And The Renormalization Group
Introduction to Modern Statistical
Mechanics

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This book explains the ideas and techniques of statistical mechanics-the theory of condensed matter-in a simple and progressive way. The text starts with the laws of thermodynamics and simple ideas of quantum mechanics. The conceptual ideas underlying the subject are explained carefully; the mathematical

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ideas are developed in parallel to give a coherent overall view. The text is illustrated with examples not just from solid state physics, but also from recent theories of radiation from black holes and recent data on the background radiation from the Cosmic background explorer. In this second edition, slightly more advanced

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material on statistical mechanics is introduced, material which students should meet in an undergraduate course. As a result the new edition contains three more chapters on phase transitions at an appropriate level for an undergraduate student. There are plenty of problems at the end of each chapter, and brief model

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answers are provided for odd-numbered problems. From reviews of the first edition: '...Introductory Statistical Mechanics is clear and crisp and takes advantage of the best parts of the many approaches to the subject' Physics Today Lectures on elementary statistical mechanics, taught at the University of

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Illinois and at the University of
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Statistical Mechanics: Fundamentals and Model Solutions, Second Edition Fully updated throughout and with new chapters on the Mayer expansion for classical gases and on cluster expansion for lattice models, this new edition of Statistical Mechanics: Fundamentals and Model Solutions provides a comprehensive

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introduction to equilibrium statistical mechanics for advanced undergraduate and graduate students of mathematics and physics. The author presents a fresh approach to the subject, setting out the basic assumptions clearly and emphasizing the importance of the thermodynamic limit and the role of convexity. With problems

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and solutions, the book clearly explains the role of models for physical systems, and discusses and solves various models. An understanding of these models is of increasing importance as they have proved to have applications in many areas of mathematics and physics. Features Updated throughout with new content

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from the field An established and well-loved textbook Contains new problems and solutions for further learning opportunity Author Professor Teunis C. Dorlas is at the Dublin Institute for Advanced Studies, Ireland.

Statistical physics

An Introduction to Statistical

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Thermodynamics, Statistical Mechanics,
and Kinetics

Statistical Mechanics in a Nutshell

Thermodynamics, Statistical Mechanics &
Kinetics

*This text provides a modern introduction to
the main principles of thermal physics,*

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thermodynamics and statistical mechanics.

The key concepts are presented and new ideas are illustrated with worked examples as well as description of the historical background to their discovery.

The book provides an introduction to the physics which underlies phase transitions and to the theoretical techniques currently at

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our disposal for understanding them. It will be useful for advanced undergraduates, for post-graduate students undertaking research in related fields, and for established researchers in experimental physics, chemistry, and metallurgy as an exposition of current theoretical understanding. - ;Recent developments have led to a good

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understanding of universality; why phase transitions in systems as diverse as magnets, fluids, liquid crystals, and superconductors can be brought under the same theoretical umbrella and well described by simple models. This book describes the physics underlying universality and then lays out the theoretical approaches now available for

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studying phase transitions. Traditional techniques, mean-field theory, series expansions, and the transfer matrix, are described; the Monte Carlo method is covered, and two chapters are devoted to the renormalization group, which led to a breakthrough in the field. The book will be useful as a textbook for a course in `Phase

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Transitions', as an introduction for graduate students undertaking research in related fields, and as an overview for scientists in other disciplines who work with phase transitions but who are not aware of the current tools in the armoury of the theoretical physicist. - ;Introduction; Statistical mechanics and thermodynamics;

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Models; Mean-field theories; The transfer matrix; Series expansions; Monte Carlo simulations; The renormalization group; Implementations of the renormalization group. -

Covering the elementary aspects of the physics of phases transitions and the renormalization group, this popular book is

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widely used both for core graduate statistical mechanics courses as well as for more specialized courses. Emphasizing understanding and clarity rather than technical manipulation, these lectures demystify the subject and show precisely "how things work." Goldenfeld keeps in mind a reader who wants to understand why things

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are done, what the results are, and what in principle can go wrong. The book reaches both experimentalists and theorists, students and even active researchers, and assumes only a prior knowledge of statistical mechanics at the introductory graduate level. Advanced, never-before-printed topics on the applications of renormalization

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group far from equilibrium and to partial differential equations add to the uniqueness of this book.

This text presents statistical mechanics and thermodynamics as a theoretically integrated field of study. It stresses deep coverage of fundamentals, providing a natural foundation for advanced topics.

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The large problem sets (with solutions for teachers) include many computational problems to advance student understanding.

With Computer Applications, Second Edition

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Statistical Mechanics

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systems has been expanded. A chapter on stochastic processes has also been added with emphasis on applications of the Fokker-Planck equation. The modern theory of phase transitions occupies a central place. The chapter devoted to the renormalization group approach is

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largely rewritten and includes a detailed discussion of the basic concepts and examples of both exact and approximate calculations. The development of the basic tools includes a chapter on computer simulations in which both Monte Carlo method and molecular dynamics are

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introduced, and a section on Brownian dynamics added. The theories are applied to a number of important systems such as liquids, liquid crystals, polymers, membranes, Bose condensation, superfluidity and superconductivity. There is also an extensive treatment of interacting

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Fermi and Bose systems, percolation theory and disordered systems in general.

The authors have prepared a solutions manual to "Introduction to Modern Statistical Mechanics," to be used as an ancillary to the text. The instructive numerical work in the

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manual is an important supplement to the original text.

This book is devoted to a discussion of some of the basic physical concepts and methods useful in the description of situations involving systems which consist of very many particulars. It attempts, in particular,

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to introduce the reader to the disciplines of thermodynamics, statistical mechanics, and kinetic theory from a unified and modern point of view. The presentation emphasizes the essential unity of the subject matter and develops physical insight by stressing the microscopic

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content of the theory.

In each generation, scientists must redefine their fields: abstracting, simplifying and distilling the previous standard topics to make room for new advances and methods. Sethna's book takes this step for statistical mechanics - a field rooted in physics

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and chemistry whose ideas and methods are now central to information theory, complexity, and modern biology. Aimed at advanced undergraduates and early graduate students in all of these fields, Sethna limits his main presentation to the topics that future mathematicians

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and biologists, as well as physicists and chemists, will find fascinating and central to their work. The amazing breadth of the field is reflected in the author's large supply of carefully crafted exercises, each an introduction to a whole field of study: everything from chaos through

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information theory to life at the end
of the universe.

An Introduction to Statistical

Mechanics and Thermodynamics

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Mechanics allows lecturers to expose their undergraduates to Feynman's approach to quantum mechanics while simultaneously giving them a textbook that is

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well-ordered, logical
and pedagogically sound.
This book covers all the
topics that are
typically presented in a
standard upper-level
course in quantum

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mechanics, but its teaching approach is new. Rather than organizing his book according to the historical development of the field and jumping

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into a mathematical discussion of wave mechanics, Townsend begins his book with the quantum mechanics of spin. Thus, the first five chapters of the

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book succeed in laying out the fundamentals of quantum mechanics with little or no wave mechanics, so the physics is not obscured by mathematics. Starting

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with spin systems it gives students straightforward examples of the structure of quantum mechanics. When wave mechanics is introduced later,

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students should perceive it correctly as only one aspect of quantum mechanics and not the core of the subject. Four-part treatment covers principles of

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quantum statistical
mechanics, systems
composed of independent
molecules or other
independent subsystems,
and systems of
interacting molecules,

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concluding with a consideration of quantum statistics.

In the phase transitions among the solid, liquid, and gaseous forms of water, we see a profound

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demonstration of how properties at the molecular scale dictate the behavior of the bulk material. As ice is heated beyond its melting point, new

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avenues for molecular motion become open to the energy being added. Upon entering the gas phase, the water molecules can explore new territory,

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unavailable to the liquid or solid. These transformations can be seen as a shifting balance between the forces that bind the molecules and the

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thermal energy that
excites these motions--a
window through
thermodynamics on the
intricate mechanisms
that drive chemistry.
This book contains

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solutions to the
problems found in
Equilibrium Statistical
Physics, 2nd Edition, by
the same authors.

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Problems and Solutions
on Thermodynamics and
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for Physical Chemistry

Statistical physics is a core component of most undergraduate (and some post-graduate) physics

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degree courses. It is primarily concerned with the behavior of matter in bulk- from boiling water to the superconductivity of metals. Ultimately, it seeks to uncover the laws governing

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random processes, such as the snow on your TV screen. This essential new textbook guides the reader quickly and critically through a statistical view of the physical world, including a

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wide range of physical applications to illustrate the methodology. It moves from basic examples to more advanced topics, such as broken symmetry and the Bose-Einstein equation. To

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accompany the text, the author, a renowned expert in the field, has written a Solutions Manual/Instructor's Guide, available free of charge to lecturers who adopt this book for their

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courses. Introduction to Statistical Physics will appeal to students and researchers in physics, applied mathematics and statistics. Statistical physics has its origins in attempts to

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describe the thermal properties of matter in terms of its constituent particles, and has played a fundamental role in the development of quantum mechanics. Based on

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lectures taught by Professor Kardar at MIT, this textbook introduces the central concepts and tools of statistical physics. It contains a chapter on probability and related issues such as the

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central limit theorem and information theory, and covers interacting particles, with an extensive description of the van der Waals equation and its derivation by mean field approximation.

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It also contains an integrated set of problems, with solutions to selected problems at the end of the book and a complete set of solutions is available to lecturers on a password

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protected website at www.cambridge.org/9780521873420

. A companion volume,
Statistical Physics of Fields,
discusses non-mean field
aspects of scaling and
critical phenomena, through

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the perspective of renormalization group. Effective medium theory dates back to the early days of the theory of electricity. Faraday 1837 proposed one of the earliest models for a

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composite metal-insulator dielectric, and around 1870 Maxwell and later Garnett (1904) developed models to describe a composite or mixed material medium. The subject has been developed

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considerably since and while the results are useful for predicting materials performance, the theory can also be used in a wide range of problems in physics and materials engineering. This

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book develops the topic of effective medium theory by bringing together the essentials of both the static and the dynamical theory. Electromagnetic systems are thoroughly dealt with, as well

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as related areas such as the CPA theory of alloys, liquids, the density functional theory etc, with applications to ultrasonics, hydrodynamics, superconductors, porous media and others, where the

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unifying aspects of the effective medium concept are emphasized. In this new second edition two further chapters have been added to deal with the theory of electrolytes and the exciting

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frontiers in electromagnetic and related areas of cloaking research all from the perspective of effective medium theory. In addition, a new appendix with notes on the example problems

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makes this an ideal graduate level text book and research reference source.

Volume 5.

Prepared by L. Schlessinger

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Particles

Solutions to Problems

Entropy, Order Parameters
and Complexity

Publisher Description

**This book contains solutions
to the problems found in**

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Statistical Mechanics
discusses the fundamental
concepts involved in
understanding the physical**

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properties of matter in bulk on the basis of the dynamical behavior of its microscopic constituents. The book emphasizes the equilibrium states of physical systems. The text first details the statistical basis of

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thermodynamics, and then proceeds to discussing the elements of ensemble theory. The next two chapters cover the canonical and grand canonical ensemble. Chapter 5 deals with the formulation of quantum statistics, while

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Chapter 6 talks about the theory of simple gases. Chapters 7 and 8 examine the ideal Bose and Fermi systems. In the next three chapters, the book covers the statistical mechanics of interacting systems, which includes the

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method of cluster expansions, pseudopotentials, and quantized fields. Chapter 12 discusses the theory of phase transitions, while Chapter 13 discusses fluctuations. The book will be of great use to researchers and practitioners

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that combines a
comprehensive coverage of
statistical and thermal
physics with enhanced**

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needs of today's students and
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to the essential ideas and techniques used in many areas of contemporary physics. Ready-to-run programs help make the many abstract concepts concrete. The text requires only a background in

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**introductory mechanics and
some basic ideas of quantum
theory, discussing material
typically found in
undergraduate texts as well
as topics such as fluids,
critical phenomena, and
computational techniques,**

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**which serve as a natural
bridge to graduate study.
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more accessible to students
Encourages active reading
with guided problems tied to
the text Updated open source
programs available in Java,**

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thermodynamics and
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