
Statistical Mechanics

By Satya Prakash

Topics In Statistical Mechanics (Second Edition)
An Introductory Course of Statistical Mechanics
Thermodynamics and Statistical Physics
Optical Electronics
Science Reporter
Classical and Quantum
Indian Books in Print
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Topics In Statistical
Mechanics (Second
Edition) S. Chand
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This book offers an in-
depth presentation of
the mechanics of
particles and systems.

The material is
thoroughly class-tested
and hence eminently
suitable as a textbook
for a one-semester
course in Classical
Mechanics for
postgraduate students
of physics and
mathematics. Besides,
the book can serve as
a useful reference for
engineering students

at the postgraduate level. The book provides not only a complete treatment of classical theoretical physics but also an enormous number of worked examples and problems to show students clearly how to apply abstract principles and mathematical techniques to realistic problems. While abstraction of theory is minimized, detailed mathematical analysis is provided wherever necessary. Besides an all-embracing coverage of different aspects of classical mechanics, the rapidly growing areas of nonlinear dynamics and chaos are also included. The chapter on Central Force Motion includes topics like satellite parameters, orbital transfers and

scattering problem. An extensive treatment on the essentials of small oscillations which is crucial for the study of molecular vibrations is included. Rigid body motion and special theory of relativity are also covered in two separate chapters.

An Introductory Course of Statistical Mechanics

PHI Learning Pvt. Ltd.

This book deals with the essentials of electrodynamics and incorporates the basic principles and mathematics involved in the subject. It is a self-contained book comprising 18 chapters and 9 appendices written in a cogent style to help the readers grasp the information quickly and easily. Figures, tables and appendices have been liberally added to explain the concepts

lucidly. The book is designed to fulfil the requirements of undergraduate and postgraduate students in the disciplines of physics, electrical and electronics engineering, electronics and communication engineering, and electronics and telecommunication engineering.

Thermodynamics and Statistical Physics New Age International

This book provides a gentle introduction to equilibrium statistical mechanics. The particular aim is to fill the needs of readers who wish to learn the subject without a solid background in classical and quantum mechanics. The approach is unique in that classical mechanical formulation

takes center stage. The book will be of particular interest to advanced undergraduate and graduate students in engineering departments.

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basic principles

concerning

electromagnetic

waves, laser theory, optical wave guides, fiber and integrated optics.

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PHI Learning Pvt. Ltd.

The thoroughly Revised & Update 2nd Edition of the book General Science & Technology for Civil Services PT & Mains, State PSC, CDS, NDA, SSC, & other UPSC Exams been designed with special focus on IAS Prelims & Main Exams. The book is prepared as per the trend of questions asked in previous years question papers of various UPSC/ State PSC/ SSC exams. • In nutshell the book consists of complete theory of Physics, Chemistry, Biology and Technology with MCQ Exercise including past questions of various exams. • The book also covers past questions

of IAS Mains GS III and various State PSC exams. • The book also covers Technology in the development of India and its future prospects in the field of research. The part deals with Energy, Nuclear Technology, Information Technology, Space research, Communication and Defence. • The book is empowered with a variety of questions (Simple MCQs, Statement Based MCQs, Match the column MCQs, Assertion-Reason MCQs) and thus more than 3800 questions are included in the book. Solutions are also provided in the book. • Past MCQs of last ten year questions of various competitive exams have also been included in the book.

QUANTAM MECHANICS

Universities Press

Discusses the basic law of statistical physics and their applications to a range of interesting problems. In this title, the basic principles of equilibrium statistical mechanics are clearly formulated and applied to specific examples of ideal gases and interacting systems to bring out their strength and scope.

QUANTUM MECHANICS

Disha Publications

This book covers advanced topics in quantum mechanics, including nonrelativistic multi-particle systems, relativistic wave equations, and relativistic fields. Numerous examples for application help readers gain a

thorough understanding of the subject. The presentation of relativistic wave equations and their symmetries, and the fundamentals of quantum field theory lay the foundations for advanced studies in solid-state physics, nuclear, and elementary particle physics. The authors earlier book, Quantum Mechanics, was praised for its unsurpassed clarity.

**Heat
Thermodynamics
and Statistical
Physics** PHI Learning
Pvt. Ltd.

This book is intended to provide an adequate background for various theoretical physics courses, especially those in classical mechanics, electrodynamics,

quantum mechanics and statistical physics.

Each topic is dealt with in a generally self-contained manner and the text is interspersed with a number of solved examples and a large number of exercise problems.

CIVIL SERVICES

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ENGLISH Oxford

University Press

This book gives a clear and logical exposition of the basic method of ensembles in statistical mechanics as developed by J.W. Gibbs. Beginning with the Liouville theorem, a brief but useful introduction to the classical statistical mechanics is provided. Then the quantum picture is outlined and the basic postulates of quantum statistical mechanics are stated. The discussion of the

Symmetry of wave function and its effect on counting is given in detail. The relation between statistical mechanics and thermodynamics is worked out and the Gibbs paradox is discussed in a lucid way. The concept of entropy is related to the information theory. Various ensembles are constructed and used to derive the Bose-Einstein and Fermi-Dirac ideal gases. Topics like liquid He, electrons in metals, and white dwarfs are given adequate coverage. Quantum Hall effect, random walk and Fourier analysis of a random fluctuation are devoted sufficient space to make it a useful and fascinating book. The book

Concludes With A Discussion Of The Sling Model And A Modern Treatment Of The Critical Phenomena. Problems At The End Of Each Chapter Widen The Area Covered And Also Help To Deepen The Understanding Of The Material Given. This Book Is Written To Introduce The Subject To Advanced Undergraduates In Physics And Chemistry Or To Graduates In Engineering Classes. The Present Edition Contains New Material Including A Chapter On Irreversible Thermodynamics And Sections Dealing With Density Matrix And Superconductivity. *Mathematical Physics* Thermodynamics and Statistical Physics Thermodynamic s, Statistical Physics, and Kinetics Pratiyogita

Darpan Pratiyogita Darpan (monthly magazine) is India's largest read General Knowledge and Current Affairs Magazine. Pratiyogita Darpan (English monthly magazine) is known for quality content on General Knowledge and Current Affairs. Topics ranging from national and international news/ issues, personality development, interviews of examination toppers, articles/ write-up on topics like career, economy, history, public administration, geography, polity, social, environment, scientific, legal etc, solved papers of various examinations, Essay and debate contest, Quiz and knowledge testing features are covered

every month in this magazine. Topics In Statistical Mechanics (Second Edition)

This well-organized and comprehensive text gives an in-depth study of the fundamental principles of Quantum Mechanics in one single volume.

Appropriate for the postgraduate courses, the book deals with both relativistic and non-relativistic quantum mechanics. The distinguishing features of the text are its logical and systematic coverage of the fundamental principles and the applications of the theory, besides presentation of examples from the areas of atomic and molecular physics, solid state physics and nuclear physics. The mathematical

treatment is rigorous and thorough and the text is supplemented with numerous problems, with hints provided for the difficult ones. These features make the text handy for self-study as well as for teaching.

Statistical Mechanics for Engineers

Cambridge University Press

This book provides a solid introduction to the classical and statistical theories of thermodynamics while assuming no background beyond general physics and advanced calculus. Though an acquaintance with probability and statistics is helpful, it is not necessary. Providing a thorough, yet concise treatment of the phenomenological

basis of thermal physics followed by a presentation of the statistical theory, this book presupposes no exposure to statistics or quantum mechanics. It covers several important topics, including a mathematically sound presentation of classical thermodynamics; the kinetic theory of gases including transport processes; and thorough, modern treatment of the thermodynamics of magnetism. It includes up-to-date examples of applications of the statistical theory, such as Bose-Einstein condensation, population inversions, and white dwarf stars. And, it also includes a chapter on the connection between thermodynamics and

information theory. Standard International units are used throughout. An important reference book for every professional whose work requires and understanding of thermodynamics: from engineers to industrial designers.

Statistical Mechanics
Springer

This book is an electromagnetics classic. Originally published in 1941, it has been used by many generations of students, teachers, and researchers ever since. Since it is classic electromagnetics, every chapter continues to be referenced to this day. This classic reissue contains the entire, original edition first published in 1941. Additionally, two new

forewords by Dr. Paul E. Gray (former MIT President and colleague of Dr. Stratton) and another by Dr. Donald G. Dudley, Editor of the IEEE Press Series on E/M Waves on the significance of the book's contribution to the field of Electromagnetics. *(Free Sample)*
Bharatiya Itihaas avum Kala Sanskriti Compendium for IAS Prelims Samanya Adhyayan Paper 1 & State PSC Exams 3rd Edition Addison-Wesley
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 Pratiyogita Darpan
Mechanics Springer
 Science & Business Media
 Building on the material learned by

students in their first few years of study, Topics in Statistical Mechanics (Second Edition) presents an advanced level course on statistical and thermal physics. It begins with a review of the formal structure of statistical mechanics and thermodynamics considered from a unified viewpoint. There is a brief revision of non-interacting systems, including quantum gases and a discussion of negative temperatures. Following this, emphasis is on interacting systems. First, weakly interacting systems are considered, where the interest is in seeing how small interactions cause small deviations from the non-interacting case. Second, systems are

examined where interactions lead to drastic changes, namely phase transitions. A number of specific examples is given, and these are unified within the Landau theory of phase transitions. The final chapter of the book looks at non-equilibrium systems, in particular the way they evolve towards equilibrium. This is framed within the context of linear response theory. Here fluctuations play a vital role, as is formalised in the fluctuation-dissipation theorem. The second edition has been revised particularly to help students use this book for self-study. In addition, the section on non-ideal gases has been expanded, with a treatment of the hard-

sphere gas, and an accessible discussion of interacting quantum gases. In many cases there are details of Mathematica calculations, including Mathematica Notebooks, and expression of some results in terms of Special Functions. **Thermodynamics, Statistical Physics, and Kinetics** Elsevier Advanced Inorganic Chemistry - Volume II is a concise book on basic concepts of inorganic chemistry. Beginning with Coordination Chemistry, it presents a systematic treatment of all Transition and Inner-Transition chemical elements and their compounds according to the periodic table. Special topics such as Pollution and its adverse effects,

chromatography, use of metal ions in biological systems, to name a few, are discussed to provide additional relevant information to the students. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

Alpha Science Int'l Ltd.
This Book Explains The Various Dimensions Of Waves And Oscillations In A Simple And Systematic Manner. It Is An Unique Attempt At Presenting A Self-Contained Account Of The Subject With Step-By-Step Solutions Of A Large Number Of Problems Of Different Types. The Book Will Be Of Great Help Not Only To Undergraduate Students, But Also To Those Preparing For Various Competitive

Examinations.

Statistical

Mechanics PHI

Learning Pvt. Ltd.

Statistical Mechanics discusses the fundamental concepts involved in understanding the physical 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 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 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 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 from wide array of disciplines, such as physics,

chemistry, and engineering. *Statistical Mechanics S.* Chand Publishing
This textbook familiarizes the students with the general laws of thermodynamics, kinetic theory & statistical physics, and their applications to physics. Conceptually strong, it is flourished with numerous figures and examples to facilitate understanding of concepts. Written primarily for B.Sc. Physics students, this textbook would also be a useful reference for students of engineering.

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