

UNITEXT for Physics

Luca Salasnich

Modern Physics

Introduction to Statistical Mechanics,
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Relativity, Mechanics and Statistical Physics D.S. Mann, P.K. Mukherjee, 1982 *Relativity Mechanics and Statistical Physics* Mann, Wiley, 1983-07-01 *Modern Classical Physics* Kip S. Thorne, Roger D. Blandford, 2017-09-05 A groundbreaking text and reference book on twenty first century classical physics and its applications This first year graduate level text and reference book covers the fundamental concepts and twenty first century applications of six major areas of classical physics that every masters or PhD level physicist should be exposed to but often isn't statistical physics optics waves of all sorts elastodynamics fluid mechanics plasma physics and special and general relativity and cosmology Growing out of a full year course that the eminent researchers Kip Thorne and Roger Blandford taught at Caltech for almost three decades this book is designed to broaden the training of physicists Its six main topical sections are also designed so they can be used in separate courses and the book provides an invaluable reference for researchers Presents all the major fields of classical physics except three prerequisites classical mechanics electromagnetism and elementary thermodynamics Elucidates the interconnections between diverse fields and explains their shared concepts and tools Focuses on fundamental concepts and modern real world applications Takes applications from fundamental experimental and applied physics astrophysics and cosmology geophysics oceanography and meteorology biophysics and chemical physics engineering and optical science and technology and information science and technology Emphasizes the quantum roots of classical physics and how to use quantum techniques to elucidate classical concepts or simplify classical calculations Features hundreds of color figures some five hundred exercises extensive cross references and a detailed index An online illustration package is available *Modern Physics* Luca Salasnich, 2022-02-17 This book offers an introduction to statistical mechanics special relativity and quantum physics It is based on the lecture notes prepared for the one semester course of Quantum Physics belonging to the Bachelor of Science in Material Sciences at the University of Padova The first chapter briefly reviews the ideas of classical statistical mechanics introduced by James Clerk Maxwell Ludwig Boltzmann Willard Gibbs and others The second chapter is devoted to the special relativity of Albert Einstein In the third chapter it is historically analyzed the quantization of light due to Max Planck and Albert Einstein while the fourth chapter discusses the Niels Bohr quantization of the energy levels and the electromagnetic transitions The fifth chapter investigates the Schrodinger equation which was obtained by Erwin Schrodinger from the idea of Louis De Broglie to associate to each particle a quantum wavelength Chapter Six describes the basic axioms of quantum mechanics which were formulated in the seminal books of Paul Dirac and John von Neumann In chapter seven there are several important application of quantum mechanics the quantum particle in a box the quantum particle in the harmonic potential the quantum tunneling the stationary perturbation theory and the time dependent perturbation theory Chapter Eight is devoted to the study of quantum atomic physics with special emphasis on the spin of the electron which needs the Dirac equation for a rigorous theoretical justification In the ninth chapter it is explained the

quantum mechanics of many identical particles at zero temperature while in Chapter Ten the discussion is extended to many quantum particles at finite temperature by introducing and using the quantum statistical mechanics The four appendices on Dirac delta function complex numbers Fourier transform and differential equations are a useful mathematical aid for the reader

Introduction to the Basic Concepts of Modern Physics Carlo Maria Becchi, Massimo D'Elia, 2015-09-11 This is the third edition of a well received textbook on modern physics theory This book provides an elementary but rigorous and self contained presentation of the simplest theoretical framework that will meet the needs of undergraduate students In addition a number of examples of relevant applications and an appropriate list of solved problems are provided Apart from a substantial extension of the proposed problems the new edition provides more detailed discussion on Lorentz transformations and their group properties a deeper treatment of quantum mechanics in a central potential and a closer comparison of statistical mechanics in classical and in quantum physics The first part of the book is devoted to special relativity with a particular focus on space time relativity and relativistic kinematics The second part deals with Schrödinger's formulation of quantum mechanics The presentation concerns mainly one dimensional problems but some three dimensional examples are discussed in detail The third part addresses the application of Gibbs statistical methods to quantum systems and in particular to Bose and Fermi gases

Classical Mechanics Walter Greiner, 2003-12-04 Intended for advanced undergraduates and beginning graduate students this text is based on the highly successful course given by Walter Greiner at the University of Frankfurt Germany The two volumes on classical mechanics provide not only a complete survey of the topic but also an enormous number of worked examples and problems to show students clearly how to apply the abstract principles to realistic problems

Introduction to Relativistic Statistical Mechanics Rami Hakim, 2011 This is one of the very few books focusing on relativistic statistical mechanics and is written by a leading expert in this special field It started from the notion of relativistic kinetic theory half a century ago exploding into relativistic statistical mechanics This will interest specialists of various fields especially the classical and quantum plasma physics However quantum physics to which a major part is devoted will be of more interest since not only it applies to quantum plasma physics but also to nuclear matter and to strong magnetic field cosmology etc Although the domain of gauge theory is not covered in this book the topic is not completely forgotten in particular in the domain of plasma physics This book is particularly readable for graduate students and a fortiori to young researchers for whom it offers methods and also appropriate schemes to deal with the current problems encountered in astrophysics in strong magnetic in nuclear or even in high energy physics

Income Distribution Dynamics of Economic Systems Marcelo Byrro Ribeiro, 2020-03-26 An overview of the distributive dynamics of economic systems in a broad theoretical and empirical sense from the econophysical viewpoint

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Lectures on Statistical Mechanics M. G.

Bowler,2012-12-02 Lectures on Statistical Mechanics

A Guide to Physics Problems Sidney B. Cahn,Boris E.

Nadgorny,2006-03-23 In order to equip hopeful graduate students with the knowledge necessary to pass the qualifying examination the authors have assembled and solved standard and original problems from major American universities Boston University University of Chicago University of Colorado at Boulder Columbia University of Maryland University of Michigan Michigan State Michigan Tech MIT Princeton Rutgers Stanford Stony Brook University of Wisconsin at Madison and Moscow Institute of Physics and Technology A wide range of material is covered and comparisons are made between similar problems of different schools to provide the student with enough information to feel comfortable and confident at the exam Guide to Physics Problems is published in two volumes this book Part 1 covers Mechanics Relativity and Electrodynamics Part 2 covers Thermodynamics Statistical Mechanics and Quantum Mechanics Praise for A Guide to Physics Problems Part 1 Mechanics Relativity and Electrodynamics Sidney Cahn and Boris Nadgorny have energetically collected and presented solutions to about 140 problems from the exams at many universities in the United States and one university in Russia the Moscow Institute of Physics and Technology Some of the problems are quite easy others are quite tough some are routine others ingenious From the Foreword by C N Yang Nobelist in Physics 1957 Generations of graduate students will be grateful for its existence as they prepare for this major hurdle in their careers R Shankar Yale University The publication of the volume should be of great help to future candidates who must pass this type of exam J Robert Schrieffer Nobelist in Physics 1972 I was positively impressed The book will be useful to students who are studying for their examinations and to faculty who are searching for appropriate problems M L Cohen University of California at Berkeley If a student understands how to solve these problems they have gone a long way toward mastering the subject matter Martin Olsson University of Wisconsin at Madison This book will become a necessary study guide for graduate students while they prepare for their Ph D examination It will become equally useful for the faculty who write the questions G D Mahan University of Tennessee at Knoxville

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Library of Congress Subject Headings Library of Congress. Cataloging Policy and Support Office, 2003 The Principles of Quantum Theory, From Planck's Quanta to the Higgs Boson Arkady Plotnitsky, 2016-09-26 The book considers foundational thinking in quantum theory focusing on the role the fundamental principles and principle thinking there including thinking that leads to the invention of new principles which is the book contends one of the ultimate achievements of theoretical thinking in physics and beyond The focus on principles prominent during the rise and in the immediate aftermath of quantum theory has been uncommon in more recent discussions and debates concerning it The book argues however that exploring the fundamental principles and principle thinking is exceptionally helpful in addressing the key issues at stake in quantum foundations and the seemingly interminable debates concerning them Principle thinking led to major breakthroughs throughout the history of quantum theory beginning with the old quantum theory and quantum mechanics the first definitive quantum theory which it remains within its proper nonrelativistic scope It has the book also argues been equally important in quantum field theory which has been the frontier of quantum theory for quite a while now and more recently in quantum information theory where principle thinking was given new prominence The approach allows the book to develop a new understanding of both the history and philosophy of quantum theory from Planck's quantum to the Higgs boson and beyond

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Pattern, Chaos and Beauty Clifford A. Pickover, 2012-07-12 Fractals and chaos theory lead to startling graphics in this book by a renowned scientist inventor and artist who coordinates information from disparate fields Over 275 illustrations 29 in color **An Introduction to Linear Programming and the Theory of Games** Abraham M. Glicksman, 2001-01-01 Simple exposition of linear programming and matrix games covers convex sets in the Cartesian plane and the fundamental extreme point theorem for convex polygons the simplex method in linear programming the fundamental duality theorem and its corollary von Neumann's minimax theorem more Easily understood problems and illustrative exercises 1963 edition

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