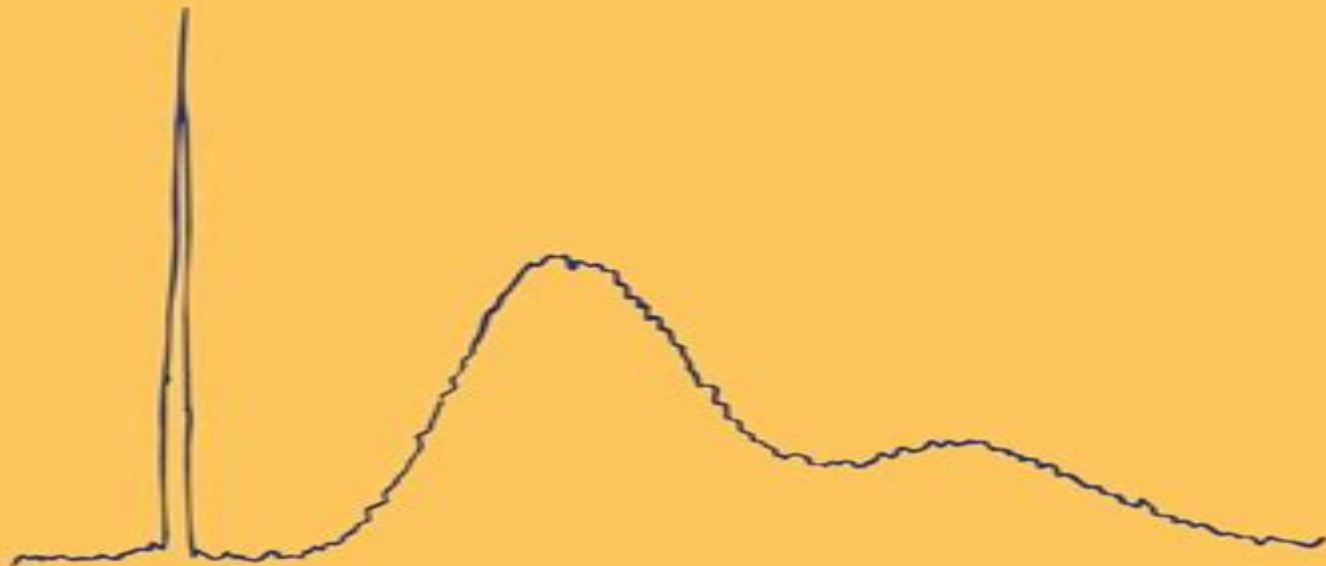


Harold J. Metcalf
Peter van der Straten

Laser Cooling and Trapping



Springer

Laser Cooling And Trapping Graduate Texts In Contemporary Physics

Xavier Oriols Pladevall, Jordi Mompart



Laser Cooling And Trapping Graduate Texts In Contemporary Physics:

Laser Cooling and Trapping Harold J. Metcalf, Peter van der Straten, 2012-12-06 Laser cooling is a relatively new technique that has led to insights into the behavior of atoms as well as confirming with striking detail some of the fundamental notions of quantum mechanics such as the condensation predicted by S N Bose This elegant technique whereby atoms molecules and even microscopic beads of glass are trapped in small regions of free space by beams of light and subsequently moved at will using other beams provides a useful research tool for the study of individual atoms and clusters of atoms for investigating the details of chemical reactions and even for determining the physical properties of individual macromolecules such as synthetic polymers and DNA Intended for advanced undergraduates and beginning graduate students who have some basic knowledge of optics and quantum mechanics this text begins with a review of the relevant results of quantum mechanics it then turns to the electromagnetic interactions involved in slowing and trapping atoms and ions in both magnetic and optical traps The concluding chapters discuss a broad range of applications from atomic clocks and studies of collision processes to diffraction and interference of atomic beams at optical lattices and Bose Einstein condensation

Laser Cooling and Trapping Harold J. Metcalf, Peter van der Straten, 2001-11-09 Intended for advanced undergraduates and beginning graduates with some basic knowledge of optics and quantum mechanics this text begins with a review of the relevant results of quantum mechanics before turning to the electromagnetic interactions involved in slowing and trapping atoms and ions in both magnetic and optical traps The concluding chapters discuss a broad range of applications from atomic clocks and studies of collision processes to diffraction and interference of atomic beams at optical lattices and Bose Einstein condensation

Laser Cooling and Trapping, 2002 **Lévy Statistics and Laser Cooling** François Bardou, 2002 Laser cooling of atoms provides an ideal case study for the application of Lévy statistics in a privileged situation where the statistical model can be derived from first principles This book demonstrates how the most efficient laser cooling techniques can be simply and quantitatively understood in terms of non ergodic random processes dominated by a few rare events Lévy statistics are now recognised as the proper tool for analysing many different problems for which standard Gaussian statistics are inadequate Laser cooling provides a simple example of how Lévy statistics can yield analytic predictions that can be compared to other theoretical approaches and experimental results The authors of this book are world leaders in the fields of laser cooling and light atom interactions and are renowned for their clear presentation This book will therefore hold much interest for graduate students and researchers in the fields of atomic physics quantum optics and statistical physics

Applied Bohmian Mechanics Xavier Oriols Pladevall, Jordi Mompart, 2019-05-24 Most textbooks explain quantum mechanics as a story where each step follows naturally from the one preceding it However the development of quantum mechanics was exactly the opposite It was a zigzag route full of personal disputes where scientists were forced to abandon well established classical concepts and to explore new and imaginative pathways Some of the explored routes were

successful in providing new mathematical formalisms capable of predicting experiments at the atomic scale However even such successful routes were painful enough so that relevant scientists like Albert Einstein and Erwin Schrödinger decided not to support them In this book the authors demonstrate the huge practical utility of another of these routes in explaining quantum phenomena in many different research fields Bohmian mechanics the formulation of the quantum theory pioneered by Louis de Broglie and David Bohm offers an alternative mathematical formulation of quantum phenomena in terms of quantum trajectories Novel computational tools to explore physical scenarios that are currently computationally inaccessible such as many particle solutions of the Schrödinger equation can be developed from it *Quantum Noise* Crispin

Gardiner, Peter Zoller, 2004-08-27 This book offers a systematic and comprehensive exposition of the quantum stochastic methods that have been developed in the field of quantum optics It includes new treatments of photodetection quantum amplifier theory non Markovian quantum stochastic processes quantum input output theory and positive P representations It is the first book in which quantum noise is described by a mathematically complete theory in a form that is also suited to practical applications Special attention is paid to non classical effects such as squeezing and antibunching Chapters added to the previous edition on the stochastic Schrödinger equation and on cascaded quantum systems and now supplemented in the third edition by a chapter on recent developments in various pertinent fields such as laser cooling Bose Einstein condensation quantum feedback and quantum information

Overview Of Gravitational Waves, An: Theory, Sources

And Detection Gerard Auger, Eric Plagnol, 2017-02-15 This book describes detection techniques used to search for and analyze gravitational waves GW It covers the whole domain of GW science starting from the theory and ending with the experimental techniques both present and future used to detect them The theoretical sections of the book address the theory of general relativity and of GW followed by the theory of GW detection The various sources of GW are described as well as the methods used to analyse them and to extract their physical parameters It includes an analysis of the consequences of GW observations in terms of astrophysics as well as a description of the different detectors that exist and that are planned for the future With the recent announcement of GW detection and the first results from LISA Pathfinder this book will allow non specialists to understand the present status of the field and the future of gravitational wave science Introduction to

Superstrings and M-Theory Michio Kaku, 2012-12-06 Superstrings provocative controversial possibly untestable but unarguably one of the most interesting and active areas of research in current physics Called by some the theory of everything superstrings may solve a problem which has eluded physicists for the past 50 years the final unification of the two great theories of the twentieth century general relativity and quantum field theory Now here is a course tested comprehensive introductory graduate text on superstrings which stresses the most current areas of interest not covered in other presentation including string field theory multi loops Teichmueller spaces conformal field theory four dimensional strings The book begins with a simple discussion of point particle theory and uses the Feynman path integral technique to

unify the presentation of superstrings Prerequisites are an acquaintance with quantum mechanics and relativity This second edition has been revised and updated throughout

**High Precision Optical Spectroscopy and Quantum State
Selected Photodissociation of Ultracold 88Sr_2 Molecules in an Optical Lattice** Mickey McDonald, 2017-11-18 This thesis unites the fields of optical atomic clocks and ultracold molecular science laying the foundation for optical molecular measurements of unprecedented precision Building upon optical manipulation techniques developed by the atomic clock community this work delves into attaining surgical control of molecular quantum states The thesis develops two experimental observables that one can measure with optical lattice trapped ultracold molecules extremely narrow optical spectra and angular distributions of photofragments that are ejected when the diatomic molecules are dissociated by laser light pulses The former allows molecular spectroscopy approaching the level of atomic clocks leading into molecular metrology and tests of fundamental physics The latter opens the field of ultracold chemistry through observation of quantum effects such as matter wave interference of photofragments and tunneling through reaction barriers The thesis also describes a discovery of a new method of thermometry that can be used near absolute zero temperatures for particles lacking cycling transitions solving a long standing experimental problem in atomic and molecular physics

Geometry, Particles, and Fields Bjoern Felsager, 2012-12-06 Geometry Particles and Fields is a direct reprint of the first edition From a review of the first edition The present volume is a welcome edition to the growing number of books that develop geometrical language and use it to describe new developments in particle physics It provides clear treatment that is accessible to graduate students with a knowledge of advanced calculus and of classical physics The second half of the book deals with the principles of differential geometry and its applications with a mathematical machinery of very wide range Here clear line drawings and illustrations supplement the multitude of mathematical definitions This section in its clarity and pedagogy is reminiscent of Gravitation by Charles Misner Kip Thorne and John Wheeler Felsager gives a very clear presentation of the use of geometric methods in particle physics For those who have resisted learning this new language his book provides a very good introduction as well as physical motivation The inclusion of numerous exercises worked out renders the book useful for independent study also I hope this book will be followed by others from authors with equal flair to provide a readable excursion into the next step

PHYSICS TODAY Bjoern Felsager is a high school teacher in Copenhagen Educated at the Niels Bohr Institute he has taught at the Universities of Copenhagen and Odense

A Primer on Quantum Fluids Carlo F. Barengi, Nick G. Parker, 2016-08-10 The aim of this primer is to cover the essential theoretical information quickly and concisely in order to enable senior undergraduate and beginning graduate students to tackle projects in topical research areas of quantum fluids for example solitons vortices and collective modes The selection of the material both regarding the content and level of presentation draws on the authors analysis of the success of relevant research projects with newcomers to the field as well as of the students feedback from many taught and self study courses on the subject matter Starting with a brief historical overview

this text covers particle statistics weakly interacting condensates and their dynamics and finally superfluid helium and quantum turbulence At the end of each chapter apart from the first there are some exercises Detailed solutions can be made available to instructors upon request to the authors

Quantum Mechanics: Fundamentals Kurt Gottfried, Tung-Mow Yan, 2013-12-01 Quantum mechanics was already an old and solidly established subject when the first edition of this book appeared in 1966 The context in which a graduate text on quantum mechanics is studied today has changed a good deal however In 1966 most entering physics graduate students had a quite limited exposure to quantum mechanics in the form of wave mechanics Today the standard undergraduate curriculum contains a large dose of elementary quantum mechanics and often introduces the abstract formalism due to Dirac Back then the study of the foundations by theorists and experimenters was close to dormant and very few courses spent any time whatever on this topic At that very time however John Bell's famous theorem broke the ice and there has been a great flowering ever since especially in the laboratory thanks to the development of quantum optics and more recently because of the interest in quantum computing And back then the Feynman path integral was seen by most as a very imaginative but rather useless formulation of quantum mechanics whereas it now plays a large role in statistical physics and quantum field theory especially in computational work For these and other reasons this book is not just a revision of the 1966 edition It has been rewritten throughout is differently organized and goes into greater depth on many topics that were in the old edition

Sensors, Circuits, and Systems for Scientific Instruments Soumyajit Mandal, 2024-12-05 Sensors Circuits and Systems for Scientific Instruments A Unified Approach presents a unified treatment of modern measurement systems by integrating relevant knowledge in sensors circuits signal processing and machine learning It also presents detailed case studies of several real life measurement systems to illustrate how theoretical analysis and high level designs are translated into working scientific instruments The book is meant for upper level undergraduate and beginning graduate students in electrical and computer engineering applied physics and biomedical engineering It is designed to fill a gap in the market between books focused on specific components of measurement systems semiconductor devices analog circuits digital signal processing etc and books that provide a high level survey or handbook type overview of a wide range of sensors and measurement systems Develops a unified treatment of modern scientific instruments by combining knowledge of high performance sensors semiconductor devices circuits signal processing and embedded computing Focuses on fundamental concepts in precision sensing and interface circuitry accuracy precision linearity noise etc and their impact on system level performance instead of presenting a laundry list of sensor types Introduces readers to the indispensable role of signal detection theory pattern recognition and machine learning for modern scientific instrumentation Presents multiple case studies and examples to demonstrate how theoretical concepts are translated into real life measurement systems

Ion Traps for Tomorrow's Applications M. Knoop, I. Marzoli, G. Morigi, 2015-07-21 Ion trapping was first accomplished in Europe more than 50 years ago Since then research and

development have increased steadily and the last decades have seen a remarkable growth in applications mainly due to the improvement of laser based techniques for spectroscopy cooling and the manipulation of ions Nowadays ion trapping plays a crucial role in a wide range of disciplines including atomic and plasma physics chemistry high precision measurement high energy physics and the emerging field of quantum technologies This book presents lectures and reports from the Enrico Fermi School Ion Traps for Tomorrow s Applications held in Varenna Italy in July 2013 Reflecting the aim of the school to exploit diversity and stimulate cross fertilization the selected topics and highlights in this book partly review the wide range of subjects discussed during the course while providing an overview of this topical domain As well as providing a useful reference guide the book will be a source of inspiration for all those planning to work on ion trapping in the future

Introduction to Statistical Physics Silvio Salinas, 2013-03-09 Intended for beginning graduate students or advanced undergraduates this text covers the statistical basis of equilibrium thermodynamics both classical and quantum including examples from solid state physics It also treats some topics of more recent interest such as phase transitions and non equilibrium phenomena The approach to equilibrium statistical mechanics is based on the Gibbs microcanonical ensemble The presentation introduces modern ideas such as the thermodynamic limit and the equivalence of ensembles and uses simple models ideal gas Einstein solid ideal paramagnet to make the mathematical ideas clear Frequently used mathematical methods are reviewed in an appendix The book begins with a review of statistical methods and classical thermodynamics making it suitable for students from a variety of backgrounds Classical thermodynamics is treated in the in the context of the classical ideal gas and the canonical and grand canonical ensembles The discussion of quantum statistical mechanics includes Bose and Fermi gases the Bose Einstein condensation phonons and magnons Phase transitions are first treated classically using the van der Waals and Curie Weiss phenomenological models as examples and then quantum mechanically the Ising model scaling theory and renormalization The book concludes with two chapters on nonequilibrium phenomena one using Boltzmann s approach the other based on stochastic models Exercises at the end of each chapter are an integral part of the course clarifying and extending topics discussed in the text Hints and solutions can be found on the author s web site

Mesoscopic Physics of Complex Materials T.S. Chow, 2012-12-06 This book is intended to provide a cross disciplinary study of the physical properties of complex fluids solids and interfaces as a function of their mesoscopic structures Because of the disorder and dissipate nature of these structures emphasis is placed on nonequilibrium phenomena These phenomena are the active research areas of soft condensed matter and it is impossible to cover them all in one book Therefore we have limited the scope by selecting a variety of important current systems that I present high values to both science and technology on the basis of my own preference and expertise and 2 have not been put together coherently in the form of a book We then show the underlying connections and parallels between topics as diverse as critical phenomena in colloidal dynamics glass state relaxation and deformation reinforced polymer composites molecular level mixing in nanocomposites

and microscopic interactions of rough surfaces and interfaces At the same time each chapter is designed to be directly accessible to readers and the need for going through the previous chapters has been kept to the minimum It is a reasonably short book that is not designed to review all of the recent work that spans many disciplines Instead we attempt to establish a general framework for the fundamental understanding and the practical development of new materials that cannot be designed by the trial and error methods

Conformal Field Theory Philippe Francesco, Pierre Mathieu, David Sénéchal, 1997 Filling an important gap in the literature this comprehensive text develops conformal field theory from first principles The treatment is self contained pedagogical and exhaustive and includes a great deal of background material on quantum field theory statistical mechanics Lie algebras and affine Lie algebras The many exercises with a wide spectrum of difficulty and subjects complement and in many cases extend the text The text is thus not only an excellent tool for classroom teaching but also for individual study Intended primarily for graduate students and researchers in theoretical high energy physics mathematical physics condensed matter theory statistical physics the book will also be of interest in other areas of theoretical physics and mathematics It will prepare the reader for original research in this very active field of theoretical and mathematical physics

Spinors in Physics Jean Hladik, 2012-12-06 Invented by Dirac in creating his relativistic quantum theory of the electron spinors are important in quantum theory relativity nuclear physics atomic and molecular physics and condensed matter physics Essentially they are the mathematical entities that correspond to electrons in the same way that ordinary wave functions correspond to classical particles Because of their relations to the rotation group $SO(n)$ and the unitary group $SU(n)$ this discussion will be of interest to applied mathematicians as well as physicists

The Physics of Quantum Fields Michael Stone, 2012-12-06 This book is intended to provide a general introduction to the physics of quantized fields and many body physics It is based on a two semester sequence of courses taught at the University of Illinois at Urbana Champaign at various times between 1985 and 1997 The students taking all or part of the sequence had interests ranging from particle and nuclear theory through quantum optics to condensed matter physics experiment The book does not cover as much ground as some texts This is because I have tried to concentrate on the basic conceptual issues that many students find difficult For a computation method oriented course an instructor would probably wish to supplement this book with a more comprehensive and specialized text such as Peskin and Schroeder *An Introduction to Quantum Field Theory* which is intended for particle theorists or perhaps the venerable *Quantum Theory of Many Particle Systems* by Fetter and Walecka The most natural distribution of the material if the book is used for a two semester course is as follows 1 st Semester Chapters 1-11 2nd semester Chapters 12-18

Elementary Lectures in Statistical Mechanics George D.J. Phillies, 2012-12-06 This volume is based on courses on Statistical Mechanics which I have taught for many years at the Worcester Polytechnic Institute My objective is to treat classical statistical mechanics and its modern applications especially interacting particles correlation functions and time dependent phenomena My development is based primarily on Gibbs's

ensemble formulation Elementary Lectures in Statistical Mechanics is meant as a relatively sophisticated undergraduate or relatively straightforward graduate text for physics students It should also be suitable as a graduate text for physical chemistry students Physicists may find my treatment of algebraic manipulation to be more explicit than some other volumes In my experience some of our colleagues are perhaps a bit over enthusiastic about the ability or tendency of our students to complete gaps in the derivations I emphasize a cyclic development of major themes I could have begun with a fully detailed formal treatment of ensemble mechanics as found in Gibbs's volume and then given material realizations I instead interleave formal discussions with simple concrete models The models illustrate the formal definitions The approach here gives students a chance to identify fundamental principles and methods before getting buried in ancillary details

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