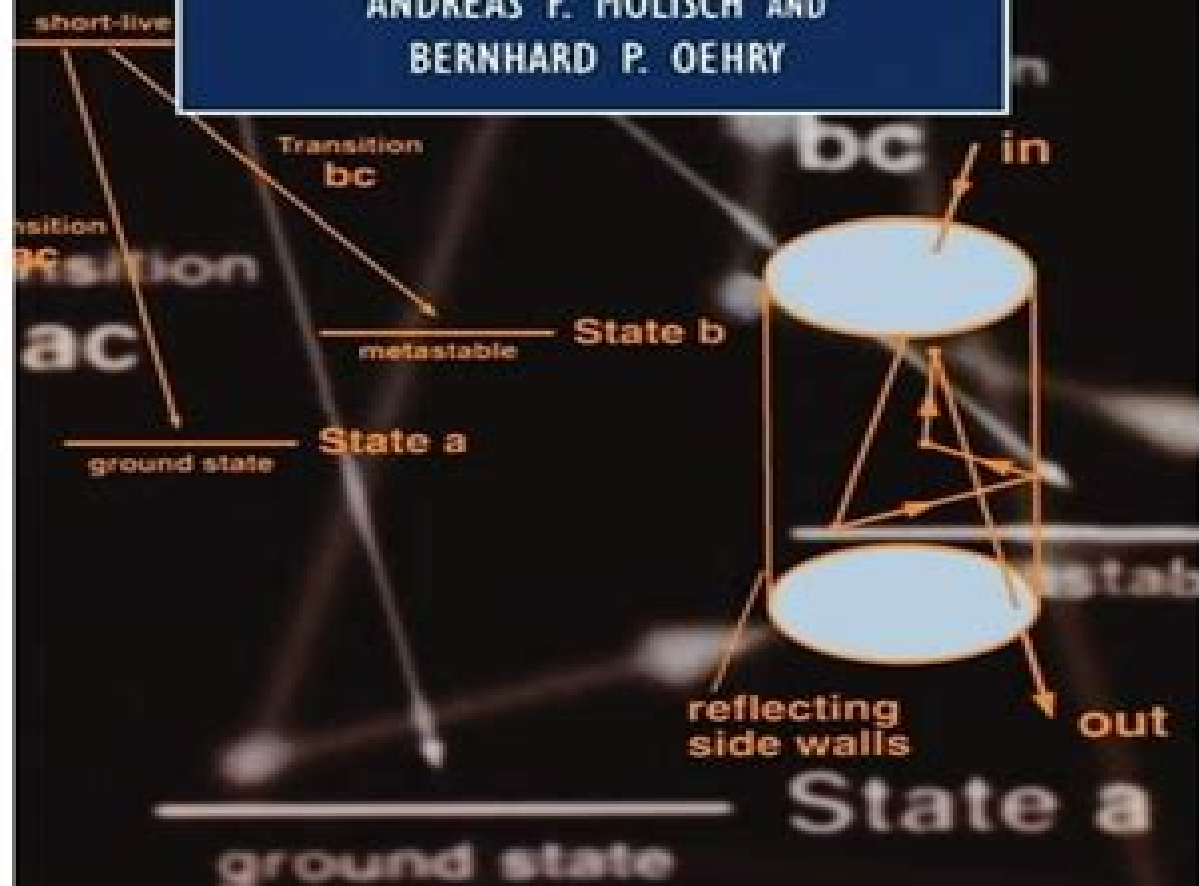


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RADIATION TRAPPING IN ATOMIC VAPOURS

ANDREAS F. MOLISCH AND
BERNHARD P. OEHRY



Radiation Trapping In Atomic Vapours

Vladilen Letokhov, Sveneric Johansson



Radiation Trapping In Atomic Vapours:

Radiation Trapping in Atomic Vapours Andreas F. Molisch, Bernhard P. Oehry, 1998 Radiation from spectral lines can be absorbed and re emitted many times in atomic vapours before it reaches the boundaries of the container encasing the vapour This effect is known as radiation trapping It plays an important role practically everywhere where atomic vapours occur e g in spectroscopy in gas lasers in atomic line filters in the determination of atomic lifetimes in measurements of atomic interaction potentials and in electric discharge lamps This book for the first time assembles all the information necessary for a treatment of practical problems emphasizing both physical insights and mathematical methods After an introduction that reviews resonance radiation and collisional processes in atomic vapours physical effects and mathematical methods for various types of problems e g with or without saturation particle diffusion reflecting cell walls etc are explained in detail The last part of the book describes the applications of these methods to a variety of practical problems like cross section measurements or the design of discharge lamps

Collective Atom-Light Interactions in Dense Atomic Vapours James Keaveney, 2014-05-24 The propagation of light in dense media where dipole dipole interactions play a role is a fundamental topic that was first studied in the work of Clausius Mossotti Lorenz and Lorentz in the latter half of the nineteenth century However until recently there remained some areas of controversy for example whereas the Lorentz model for a gas predicts a resonance shift a discrete dipole model does not This thesis makes the first combined measurement of both the Lorentz shift and the associated collective Lamb shift This clear experimental result stimulated new theoretical work that has significantly advanced our understanding of light propagation in interacting media

Advances in Atomic, Molecular, and Optical Physics, 2023-06-01 *Advances in Atomic Molecular and Optical Physics* Volume 72 highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the *Advances in Atomic Molecular and Optical Physics* series Includes the latest information in the field

Advanced Monte Carlo for Radiation Physics, Particle Transport Simulation and Applications Andreas Kling, Fernando J.C. Barao, Masayuki Nakagawa, Luis Tavora, Pedro Vaz, 2014-02-22 This book focusses on the state of the art of Monte Carlo methods in radiation physics and particle transport simulation and applications the latter involving in particular the use and development of electron gamma neutron gamma and hadronic codes Besides the basic theory and the methods employed special attention is paid to algorithm development for modeling and the analysis of experiments and measurements in a variety of fields ranging from particle to medical physics

Springer Handbook of Atomic, Molecular, and Optical Physics Gordon W. F. Drake, 2023-02-09 Comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary

research literature carefully edited to ensure a uniform coverage and style with extensive cross references Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook Computational Methods in Transport Frank Graziani,2006-02-17

There exist a wider range of applications where a signi cant fraction of the momentum and energy present in a physical problem is carried by the transport of particles Depending on the specific application the particles involved may be photons neutrons neutrinos or charged particles Regardless of which phenomena is being described at the heart of each application is the fact that a Boltzmann like transport equation has to be solved The complexity and hence expense involved in solving the transport problem can be understood by realizing that the general solution to the 3D Boltzmann transport equation is in fact really seven dimensional 3 spatial coordinates 2 angles 1 time and 1 for speed or energy Low order approximations to the transport equation are frequently used due in part to physical justification but many in cases simply because a solution to the full transport problem is too computationally expensive An example is the diffusion equation which effectively drops the two angles in phase space by assuming that a linear representation in angle is adequate Another approximation is the grey approximation which drops the energy variable by averaging over it If the grey approximation is applied to the diffusion equation the expense of solving what amounts to the simplest possible description of transport is roughly equal to the cost of implicit computational fluid dynamics It is clear therefore that for those application areas needing some form of transport fast accurate and robust transport algorithms can lead to an increase in overall code performance and a decrease in time to solution

Surface wave driven molecular low pressure plasmas for general lighting Oeguen, Celal Mohan,2016-02-23 Nowadays compact fluorescent lamps are widely used in general lighting applications However they still struggle with acceptance problems due to the hazardous mercury which serves as the radiant component inside the lamp The presented work deals with the development of a mercury free electrodeless low pressure plasma based on a molecular filling and driven by microwaves which may represent a viable alternative to the conventional CFLs **Astrophysical Lasers** Vladilen

Letokhov, Sveneric Johansson,2009 Progress in modern radio astronomy led to the discovery of space masers in the microwave range and it became a powerful tool for studies of interstellar star forming molecular clouds Progress in observational astronomy particularly with ground based huge telescopes and the space based Hubble Space Telescope has led to recent discoveries of space lasers in the optical range These operate in gas condensations in the vicinity of the mysterious star Eta Carinae one of the most luminous and massive stars of our Galaxy Both maser and laser effects first

demonstrated under laboratory conditions have now been discovered to occur under natural conditions in space too This book describes consistently the elements of laser science astrophysical plasmas modern astronomical observation techniques and the fundamentals and properties of astrophysical lasers A book with such an interdisciplinary scope has not been available to date The book will also be useful for a wider audience interested in modern developments of the natural sciences and technology **High Sensitivity Magnetometers** Asaf Grosz, Michael J. Haji-Sheikh, Subhas C.

Mukhopadhyay, 2016-09-20 This book gathers for the first time an overview of nearly all of the magnetic sensors that exist today The book is offering the readers a thorough and comprehensive knowledge from basics to state of the art and is therefore suitable for both beginners and experts From the more common and popular AMR magnetometers and up to the recently developed NV center magnetometers each chapter is describing a specific type of sensor and providing all the information that is necessary to understand the magnetometer behavior including theoretical background noise model materials electronics design and fabrication techniques etc **Fundamentals of Ionized Gases** Boris M.

Smirnov, 2012-09-19 A comprehensive and readily accessible work for studying the physics of ionized gases based on Physics of Ionized Gases The focus remains on fundamentals rather than on the details required for interesting but difficult applications such as magnetic confinement fusion or the phenomena that occur with extremely high intensity short pulse lasers However this new work benefits from much rearranging of the subject matter within each topic resulting in a more coherent structure There are also some significant additions many of which relate to clusters while other enlarged sections include plasmas in the atmosphere and their applications In each case the emphasis is on a clear and unified understanding of the basic physics that underlies all plasma phenomena Thus there are chapters on plasma behavior from the viewpoint of atomic and molecular physics as well as on the macroscopic phenomena involved in physical kinetics of plasmas and the transport of radiation and of charged particles within plasmas With this grounding in the fundamental physics of plasmas the notoriously difficult subjects of nonlinear phenomena and of instabilities in plasmas can then be treated with comprehensive clarity The work is rounded off with appendices containing information and data of great importance and relevance that are not easily found in other books Valuable reading for graduate and PhD physics students and a reference for researchers in low temperature ionized gases plasma processing edge region fusion plasma physics and atmospheric plasmas **Acta**

Physica Polonica, 1999 **Photon Counting** Nikolay Britun, Anton Nikiforov, 2018-03-21 Photon counting is a unified name for the techniques using single photon detection for accumulative measurements of the light flux normally occurring under extremely low light conditions Nowadays this approach can be applied to the wide variety of the radiation wavelengths starting from X ray and deep ultraviolet transitions and ending with far infrared part of the spectrum As a special tribute to the photon counting the studies of cosmic microwave background radiation in astronomy the experiments with muon detection and the large scale fundamental experiments on the nature of matter should be noted The book provides readers

with an overview on the fundamentals and state of the art applications of photon counting technique in the applied science and everyday life **Advances in Atomic, Molecular, and Optical Physics** Benjamin Bederson, Herbert

Walther, 2001-09-17 This series established in 1965 is concerned with recent developments in the general area of atomic molecular and optical physics The field is in a state of rapid growth as new experimental and theoretical techniques are used on many old and new problems Topics covered also include related applied areas such as atmospheric science astrophysics surface physics and laser physics Articles are written by distinguished experts who are active in their research fields The articles contain both relevant review material and detailed descriptions of important recent developments *Annual Review*

Of Cold Atoms And Molecules - Volume 2 Kirk W Madison, Lincoln D Carr, Hui Zhai, Kai Bongs, Ana Maria Rey, 2014-04-01 The aim of this book is to present review articles describing the latest theoretical and experimental developments in the field of cold atoms and molecules Our hope is that this series will promote research by both highlighting recent breakthroughs and by outlining some of the most promising research directions in the field Fractional Derivatives for Physicists and

Engineers Vladimir V. Uchaikin, 2013-07-09 The first derivative of a particle coordinate means its velocity the second means its acceleration but what does a fractional order derivative mean Where does it come from how does it work where does it lead to The two volume book written on high didactic level answers these questions Fractional Derivatives for Physicists and Engineers The first volume contains a clear introduction into such a modern branch of analysis as the fractional calculus The second develops a wide panorama of applications of the fractional calculus to various physical problems This book recovers new perspectives in front of the reader dealing with turbulence and semiconductors plasma and thermodynamics mechanics and quantum optics nanophysics and astrophysics The book is addressed to students engineers and physicists specialists in theory of probability and statistics in mathematical modeling and numerical simulations to everybody who doesn't wish to stay apart from the new mathematical methods becoming more and more popular Prof Vladimir V UCHAIKIN is a known Russian scientist and pedagogue a Honored Worker of Russian High School a member of the Russian Academy of Natural Sciences He is the author of about three hundreds articles and more than a dozen books mostly in Russian in Cosmic ray physics Mathematical physics Levy stable statistics Monte Carlo methods with applications to anomalous processes in complex systems of various levels from quantum dots to the Milky Way galaxy **Metal Vapours in Flames** C. Th. J.

Alkemade, Tj. Hollander, W. Snelleman, P. J. Th. Zeegers, 2013-10-22 The book is unique in comprising our present knowledge about the general state of and the processes involving metal vapours in combustion flames It deals thoroughly with a great variety of experimental techniques including many practical hints and synthesizes the results in this field of research which are often scattered across publications in widely different areas of science and technology and over a large time span An account is given of the results of recent and past flame experiments on the properties of metal species and the processes in which they take part Properties and processes that are discussed in extenso include the dissociation energy of metal

compounds collisional broadening of atomic lines physical and chemical excitation and quenching of electric states formation reactions of metal compounds ionization and diffusion Many of the topics and experimental methods discussed are also of interest in other fields of fundamental and applied science In particular explicit conclusions are drawn as to the analytical application of flame spectroscopy *Journal of Physics* ,2004 Atomic and Molecular Data and Their Applications Keith A. Berrington, Kenneth L. Bell, 2000-11-06 The principal motivations for establishing the ICAMDATA conference series are to provide a focal point for intensive interactions between atomic and molecular data producers compliers and users and to provide a forum to discuss major issues which are highlighted in this volume Both theoretical and experimental approaches are reviewed and cover a broad spectrum of topics including electron impact with atoms and molecules atomic structure and transition probabilities heavy particle collisions quantum chemistry and thermochemical data Most papers focus not only on the means of production of data but also on providing some idea of the accuracy of the data produced The third aspect of the conference examined closely the various databases around the world **European Particle Accelerator Conference (Epac 94) (In 3 Volumes)** Christine Petit-jean-genaz, Vic Suller, 1994-11-26 These proceedings aim to provide a comprehensive overview of research technology and applications in the field of accelerators Contributions from the entire field of accelerators are presented including low and high energy machines and medical and industrial accelerators **Laser Physics** ,2005

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