

Springer Series in
Optical Sciences

Letokhov · Chebotayev

Nonlinear Laser Spectroscopy



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Nonlinear Laser Spectroscopy Springer Optical Sciences Ser Vol 4

Walter Koechner



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Semiconductor Optics Claus F. Klingshirn, 1997-02-03 Semiconductor Optics provides an introduction to and an overview of semiconductor optics from the IR through the visible to the UV including linear and nonlinear optical properties dynamics magneto and electrooptics high excitation effects some applications experimental techniques and group theory Mathematics is kept as elementary as possible enough for an intuitive understanding of the experimental results and techniques treated The subjects covered extend from physics to materials science and optoelectronics *Laser*

Spectroscopy 2 Wolfgang Demtröder, 2015-01-07 Keeping abreast of the latest techniques and applications this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded While the general concept is unchanged the new edition features a broad array of new material e g ultrafast lasers atto and femto second lasers coherent matter waves Doppler free Fourier spectroscopy interference spectroscopy quantum optics and gravitational waves and still more applications in chemical analysis medical diagnostics and engineering *Laser*

Spectroscopy Wolfgang Demtröder, 2013-06-29 Keeping abreast of the latest techniques and applications this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded While the general concept is unchanged the new edition features a broad array of new material e g frequency doubling in external cavities reliable cw parametric oscillators tunable narrow band UV sources more sensitive detection techniques tunable femtosecond and sub femtosecond lasers X ray region and the attosecond range control of atomic and molecular excitations frequency combs able to synchronize independent femtosecond lasers coherent matter waves and still more applications in chemical analysis medical diagnostics and engineering **Atomic and Molecular Spectroscopy** Sune Svanberg, 2012-12-06 Atomic

and molecular spectroscopy has provided basic information leading to the development of quantum mechanics and to the understanding of the building blocks of matter It continues to provide further insight into the statics and dynamics of the microcosmos and provides the means for testing new concepts and computational methods The results of atomic and molecular spectroscopy are of great importance in astrophysics plasma and laser physics The rapidly growing field of spectroscopic applications has made considerable impact on many disciplines including medicine environmental protection chemical processing and energy research In particular the techniques of electron and laser spectroscopy the subjects of the 1981 Nobel prize in physics have contributed much to the analytical potential of spectroscopy This textbook on Atomic and Molecular Spectroscopy has been prepared to provide an overview of modern spectroscopic methods It is intended to serve as a text for a course on the subject for final year undergraduate physics students or graduate students It should also be useful for students of astrophysics and chemistry The text has evolved from courses on atomic and molecular spectroscopy given by the author since 1975 at Chalmers University of Technology and at the Lund Institute of Technology References are given to important books and review articles which allow more detailed studies of different aspects of atomic and molecular

spectroscopy No attempt has been made to cover all important references nor have priority aspects been systematically considered

Methods of Inverse Problems in Physics Dilip N. Ghosh Roy, 1991-03-14 This interesting volume focuses on the second of the two broad categories into which problems of physical sciences fall direct or forward and inverse or backward problems It emphasizes one dimensional problems because of their mathematical clarity The unique feature of the monograph is its rigorous presentation of inverse problems from quantum scattering to vibrational systems transmission lines and imaging sciences in a single volume It includes exhaustive discussions on spectral function inverse scattering integral equations of Gel'fand Levitan and Marcenko Povzner Levitan and Levin transforms Miller wave operators and Krein's functionals S matrix and scattering data and inverse scattering transform for solving nonlinear evolution equations via inverse solving of a linear isospectral Schrodinger equation and multisoliton solutions of the Kadomtsev-Petviashvili equation which are of special interest to quantum physicists and mathematicians The book also gives an exhaustive account of inverse problems in discrete systems including inverting a Jacobi and a Toeplitz matrix which can be applied to geophysics electrical engineering applied mechanics and mathematics A rigorous inverse problem for a continuous transmission line developed by Brown and Wilcox is included The book concludes with inverse problems in integral geometry specifically Radon's transform and its inversion which is of particular interest to imaging scientists This fascinating volume will interest anyone involved with quantum scattering theoretical physics linear and nonlinear optics geosciences mechanical biomedical and electrical engineering and imaging research

Quasi-Optical Control of Intense Microwave Transmission Jay L. Hirshfield, Michael I. Petelin, 2006-02-12 Between February 17 and 20 2004 approximately fifty scientists from ten countries came together at the Institute of Applied Physics IAP Nizhny Novgorod Russia to participate in a NATO sponsored Advanced Research Workshop whose appellation is reflected in the title of this volume namely Quasi Optical Control of Intense Microwave Transmission The fashionable label quasi optical has come into use in recent decades to denote structures whose characteristic dimensions exceed sometimes by large factors the free space radiation wavelength Such structures were and are developed to replace the traditional single eigenmode ones in situations when high frequencies short wavelengths are combined with high powers a combination that could otherwise lead to RF breakdown and high Ohmic wall heating rates Treatments of guided wave propagation in oversized structures is aimed at preserving the propagating field coherence and thus to provide efficient transmission of RF power to remote destinations such as antennas microwave ovens plasma chemical reactors nuclear fusion machines and the like

Solid-State Laser Engineering Walter Koechner, 2013-11-11 This book written from an industrial vantage point provides a detailed discussion of solid state lasers their characteristics design and construction and practical problems The title Solid State Laser Engineering has been chosen because the emphasis is placed on engineering and practical considerations of solid state lasers I have tried to enhance the description of the engineering aspects of laser construction and operation by including numerical and technical data tables and curves The book is mainly intended for the

practicing scientist or engineer who is interested in the design or use of solid state lasers but the response from readers has shown that the comprehensive treatment of the subject makes the work useful also to students of laser physics who want to supplement their theoretical knowledge with the engineering aspects of lasers. Although not written in the form of a college textbook the book might be used in an advanced college course on laser technology. The aim was to present the subject as clearly as possible. Phenomenological descriptions using models were preferred to an abstract mathematical presentation even though many simplifications had then to be accepted. Results are given in most cases without proof since I have tried to stress the application of the results rather than the derivation of the formulas. An extensive list of references is cited for each chapter to permit the interested reader to learn more about a particular subject.

Laser Spectroscopy 1 Wolfgang Demtröder, 2014-05-07 Keeping abreast of the latest techniques and applications this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded. While the general concept is unchanged the new edition features a broad array of new material e.g. ultrafast lasers, atto and femtosecond lasers and parametric oscillators, coherent matter waves, Doppler free Fourier spectroscopy with optical frequency combs, interference spectroscopy, quantum optics, the interferometric detection of gravitational waves and still more applications in chemical analysis, medical diagnostics and engineering.

Nonlinear Laser Chemistry V. S. Letokhov, 2012-12-06 Prefaces are usually written when a manuscript is finished. Having finished this book I can clearly see many shortcomings in it. But if I began to eliminate them I would probably write quite a different book in another two years indeed this has already happened once. In 1979 when I finished the first version of this book it was much broader in scope and was to be titled *Laser Photochemistry*. Corrections and additions to that unpublished manuscript gave rise to the present book with its revised title and more specific subject matter. I resolved to have it published in exactly this form despite the fact that it concerns a dynamically developing field of research and will soon make way for other works. This book contains the basic ideas and results I have been developing with my colleagues, friends and students at the Institute of Spectroscopy, USSR Academy of Sciences in the town of Troitsk since 1970. It deals with the interaction of light with atoms and molecules via multiple phonon interaction. Nonlinear processes in the resonant interaction are used to illustrate the physical mechanisms involved and to indicate how these processes have led to modern applications such as isotope separation, detection of single atoms and molecules and chemical and biochemical synthesis.

Photo-initiated Deposition and Etching of Materials Relevant to Semiconductor Devices J. Haigh, 1988

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 **Springer Handbook of Lasers and Optics** Frank Träger, 2012-05-05 This new edition features numerous updates and additions Especially 4 new chapters on Fiber Optics Integrated Optics Frequency Combs and Interferometry reflect the changes since the first edition In addition major complete updates for the chapters Optical Materials and Their Properties Optical Detectors Nanooptics and Optics far Beyond the Diffraction Limit Features Contains over 1000 two color illustrations Includes over 120 comprehensive tables with properties of optical materials and light sources Emphasizes physical concepts over extensive mathematical derivations Chapters with summaries detailed index Delivers a wealth of up to date references **Atom- und Quantenphysik** Hermann Haken, Hans C. Wolf, 2013-03-13 **Molecular and Laser Spectroscopy** Zu-Geng Wang, Hui-Rong Xia, 2012-12-06 The spectra of molecules containing more than one atom are necessarily of single atoms They are correspondingly much more complex than those richer not only in the number of spectral lines but also in qualitatively different phenomena which do not have any counterpart in single atoms Historically molecular spectra have revealed much fundamental physics such as the connection between nuclear spin statistics They have provided models of physical systems which have been useful in quite different areas such as particle physics Most especially molecular spectra are of fundamental importance in understanding chemical bonding They reveal not only bond lengths but also the strength of the bonding potential between atoms Moreover these measurements are obtained for electronic excited states as well as for the ground state and for unstable short lived molecules In recent years tunable lasers have provided powerful tools for the measurement and analysis of molecular spectra Even before that molecules were being used in lasers most notably in the carbon dioxide laser which finds many industrial applications **Subject Guide to Books in Print**, 1996 Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures Jagdeep Shah, 2013-11-11 Multiple-Photon Excitation and Dissociation of Polyatomic Molecules Cyrus D. Cantrell, 2013-03-08 In the early 1970s researchers in Canada the Soviet Union and the United States discovered that powerful infrared laser pulses are capable of dissociating molecules such as SiF₄ and SF₆ This result which was so unexpected that for some time the phenomenon of multiple photon dissociation was not recognized in many circumstances in which we now know that it occurs was first publicized at a time when the possibility of using lasers for the separation of isotopes had attracted much attention in the scientific community From the mid 1970s to the early 1980s hundreds of experimental papers were published describing the multiple photon absorption of CO₂ laser pulses in nearly every simple molecule with an absorption band in the 9–11 μm region Despite this impressive

volume of experimental results and despite the efforts of numerous theorists there is no agreement among researchers in the field on many fundamental aspects of the absorption of infrared laser light by polyatomic molecules This book is devoted to reviews of the experimental and theoretical research that provides the foundations for our current understanding of molecular multiple photon excitation and to reviews of research that is pertinent to the laser separation of isotopes

Laser Photoionization Spectroscopy Vladilen Letokhov, 2012-12-02 Laser Photoionization Spectroscopy discusses the features and the development of photoionization technique This book explores the progress in the application of lasers which improve the characteristics of spectroscopic methods Organized into 12 chapters this book starts with an overview of the fundamentals of the method for atoms and molecules This text then examines the photoionization spectroscopy which is based on the laser resonant excitation of particles into highly lying quantum states that are easy to detect by ionization Other chapters explain the various basic schemes of multistep excitation which can be used for resonance photoionization of molecules This book discusses as well the different applications of the resonance photoionization technique in atomic and molecular spectroscopy The final chapter considers the two well known types of microscopy namely wave and corpuscular This book is a valuable resource for chemists physicists analysts and geochemists who are interested in laser spectroscopy techniques to solve nontrivial problems Books in Print ,1994 *Optics, Light and Lasers* Dieter Meschede, 2017-02-24

This new updated and enlarged edition of the successful and exceptionally well structured textbook features new chapters on such hot topics as optical angular momentum microscopy beyond the resolution limit metamaterials femtocombs and quantum cascade lasers It provides comprehensive and coherent coverage of fundamental optics laser physics and important modern applications while equally including some traditional aspects for the first time such as the Collins integral or solid immersion lenses Written for newcomers to the topic who will benefit from the author's ability to explain difficult theories and effects in a straightforward and readily comprehensible way

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