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Hanna · Yuratich · Cotter

**Nonlinear Optics
of Free Atoms
and Molecules**



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Nonlinear Optics Of Free Atoms And Molecules

**David C. Hanna, Michael A.
Yuratich, David Cotter**



Nonlinear Optics Of Free Atoms And Molecules:

Nonlinear Optics of Free Atoms and Molecules David C. Hanna, Michael A. Yuratich, David Cotter, 1979 Nonlinear Optics of Free Atoms and Molecules D.C. Hanna, M.A. Yuratich, D. Cotter, 1979-12-01 Laser physics and nonlinear optics are fields which have been intimately connected from their beginning Nonlinear optical effects such as second harmonic generation fulfil vital functions in many laser systems Conversely advances in laser development quickly lead to progress in nonlinear optics Of particular importance has been the development of tunable visible and uv lasers With the ability to tune the laser frequency into close resonance with atomic transition frequencies one can produce a large resonance enhancement of the nonlinearity This permits the observation of a great variety of nonlinear optical processes in dilute media such as atomic vapours In recent years much of the research effort in nonlinear optics has been directed towards the use of such media and it is this area which forms the subject of the present book We review a wide range of nonlinear optical processes in atomic vapours molecular gases and cryogenic liquids At the same time we have tried to treat the subject in sufficient depth to be useful to research workers in the field To achieve this a measure of selectivity has been introduced by emphasising those nonlinear processes which are seen to have applications as sources of tunable coherent radiation Thus we have not discussed in any detail those nonlinear processes whose main applications are in spectroscopy such as Doppler free two photon absorption *Nonlinear Optics Of Free Atoms Molecules* D.C. Hanna, **Proceedings of the International Conference of Computational Methods in Sciences and Engineering 2003 (ICCMSE 2003)** T. E. Simos, 2003 In the past few decades many significant insights have been gained into several areas of computational methods in sciences and engineering New problems and methodologies have appeared in some areas of sciences and engineering There is always a need in these fields for the advancement of information exchange The aim of this book is to facilitate the sharing of ideas problems and methodologies between computational scientists and engineers in several disciplines Extended abstracts of papers on the recent advances regarding computational methods in sciences and engineering are provided The book briefly describes new methods in numerical analysis computational mathematics computational and theoretical physics computational and theoretical chemistry computational biology computational mechanics computational engineering computational medicine high performance computing etc **Laser Spectroscopy** Wolfgang Demtröder, 2013-06-29 Laser Spectroscopy in this second enlarged edition provides an introduction to modern techniques and instrumentation in laser spectroscopy The first part which discusses the basic concepts of absorption and emission of light the spectroscopic instrumentation for wavelength measurements and detection of light and the spectroscopic properties of lasers is a textbook for graduate students The second part gives a survey on different techniques of laser spectroscopy and their applications with ample references to the original literature This book helps close the gap between classical works on optics and spectroscopy and more specialized publications on modern research in this field It is addressed to graduate students in

physics and chemistry as well as scientists just entering this field on research *X-Ray Microscopy* G. Schmahl, D. Rudolph, 2013-04-17 X ray microscopy fills a gap between optical and electron microscopy Using soft x rays a resolution higher than with visible light can be obtained In comparison to electron microscopy thick wet unstained specimens can be examined This is especially advantageous for biological applications The intense synchrotron radiation of electron storage rings and the development of optical elements for soft x rays render x ray microscopy feasible for basic research Wider applications will be possible in the future with the development of laboratory x ray sources and microscopes In 1979 a conference on x ray microscopy was organized by the New York Academy of Sciences and in 1981 a symposium on high resolution soft x ray optics was held at Brookhaven The present volume contains the contributions to the symposium X Ray Microscopy organized by the Akademie der Wissenschaften in Göttingen in September 1983 In their capacity as conference chairmen the editors would like to thank the Akademie der Wissenschaften especially Prof H G Wagner Secretary of the Academy and Mr J Pfahler for organizing the symposium We are indebted to the Stiftung Volkswagenwerk for financial support The symposium was held at the Max Planck Institut für Stromungsforschung We are grateful for their hospitality and assistance during the symposium Thanks are due to all authors and to the Springer Verlag for their combined efforts We thank Dipl Phys P Guttman Dr B Niemann and Mrs A Marienhagen for their assistance during the final preparation of the manuscripts **Transmission Electron Microscopy** Ludwig Reimer, 2013-11-11 Transmission Electron Microscopy presents the theory of image and contrast formation and the analytical modes in transmission electron microscopy The principles of particle and wave optics of electrons are described Electron specimen interactions are discussed for evaluating the theory of scattering and phase contrast Also analysed are the kinetical and dynamical theories of electron diffraction and their applications for crystal structure determination and imaging of lattices and their defects X ray microanalysis and electron energy loss spectroscopy are treated as analytical methods The third edition includes a brief discussion of Schottky emission guns some clarification of minor details and references to the recent literature Color Measurement David L. MacAdam, 2013-06-05 Reviews and use of the first edition as the textbook for a senior division university course indicated the need for a number of corrections and clarifications Although no new topics have been introduced the new edition should be more clear and useful A novelty in the Notes and Sources Appendix should facilitate reference from the notes back to the text For that purpose the page number of the text to which each note refers is indicated in square brackets following the serial number of the note The FMC1 color difference formula has been substituted everywhere for the Friele MacAdam formula including the reference to the sources in Note 52 The FMC1 formula was actually used in the investigations reviewed in Sects 8.3 and 8.4 The Friele MacAdam formula given on page 151 of the first edition which I thought was equivalent to the FMC1 was erroneous and should not be used The formulas for the geodesic chromaticity diagram on p 153 of the first edition were based on observations by 14 normal observers last reference in Note

51 They have been replaced by the formulas based on the observations of PON for consistency with all other formulas and discussions in the book Figure 8 29 in the first edition was based on the PON data and on the formulas printed below it in the new edition Therefore Fig 8 29 is unchanged

X-Ray Spectroscopy Bipin K. Agarwal, 2013-06-29 X ray spectroscopy has emerged as a powerful tool in research and in industrial laboratories It is used in the study of metals semiconductors amorphous solids liquids and gases This comprehensive presentation develops the subject from its basic principles and relates the theory to experimental observations The new edition includes topics that have recently become important for example the X ray laser appearance potential spectroscopy synchrotron radiation and EXAFS of high Tc superconducting materials A thorough introduction up to research level is provided to EXAFS which has seen rapid development in the past few years This textbook conveniently presents the principles applications and current techniques of X ray spectroscopy which makes it ideal for graduate students beginning research involving x ray spectroscopy

Silver-Halide Recording Materials Hans I. Bjelkhagen, 2013-04-17 Silver Halide Recording Materials gives a detailed analysis of the theory the characteristics the manufacturing and the processing methods of silver halide materials used for the recording of holograms Emphasis is placed on the selection of suitable silver halide materials for conventional as well as special holographic applications A detailed account of current developing and bleaching methods used in the production of silver halide holograms is given The author also supplies a large number of recipes for different types of processing baths The text is complemented by a comprehensive list of references which will facilitate any further study The monograph will be suitable for courses in holography where the student possesses some background knowledge as regards the general holographic process and the holographic technique

Laser Optoacoustic Spectroscopy V.P. Zharov, V.S. Letokhov, 2013-04-17 The optoacoustic method has by now an almost one century long history of application in spectroscopy but it was only with the advent of the laser that it became a convenient and effective method among the vast family of spectroscopy techniques The great variety of these techniques is capable of tackling most diversified tasks such as the achievement of a high sensitivity and a high spectral or temporal resolution The optoacoustic method is one of the simplest and most versatile ways to attain a high sensitivity for both gaseous and condensed media It is precisely for this reason that the method has found wide use and that we have decided to publish a monograph reviewing the information on this method available in the literature and gathered by us at the Institute of Spectroscopy during the past few years We hope that such a systematic exposition of the material scattered throughout numerous scientific journals will be of use to many potential readers The reader will undoubtedly notice the absence in our monograph of references to some recent works but unfortunately this is inevitable when the translation and publication of a book in a foreign language takes several years Nevertheless we tried our best to cover the entire field from the material available to us but unfortunately some recent publications might be missing due to the time lag for the translation and publication in a language foreign to us

Laser-Induced Dynamic Gratings Hans

Joachim Eichler, Peter Günter, Dieter W. Pohl, 2013-06-29 The invention of the laser 25 years ago resulted in powerful light sources which led to the observation of unexpected and striking phenomena. New fields of science such as holography and nonlinear optics developed constituting the basis of this volume. The classical principle of linear superposition of light waves does not hold anymore. Two laser beams crossing in a suitable material may produce a set of new beams with different directions and frequencies. The interaction of light waves can be understood by considering the optical grating structures which develop in the overlap region. The optical properties of matter become spatially modulated in the interference region of two light waves. Permanent holographic gratings have been produced in this way by photographic processes for many years. In contrast, dynamic or transient gratings disappear after the inducing light source, usually a laser, has been switched off. The grating amplitude is controlled by the light intensity. Dynamic gratings have been induced in a large number of solids, liquids, and gases and are detected by diffraction, forced light scattering of a third probing beam, or by self-diffraction of the light waves inducing the grating. The combined interference and diffraction effect corresponds to four-wave mixing (FWM) in the language of nonlinear optics. The process is called degenerate if the frequencies of the three incident waves and the scattered wave are equal. Degenerate four-wave mixing (DFWM) is a simple method to achieve phase conjugation, i.e. to generate a wave which propagates time-reversed with respect to an incident wave. Lasers, Spectroscopy and New Ideas William M.

Yen, Marc D. Levenson, 2013-11-11 This volume originated in a happy event honoring Arthur Schawlow on his 65th birthday. As a research physicist, Schawlow has been a major influence on the present nature of physics and of high technology. He has also had a role through the American Physical Society and other organizations in shaping policy for the world of physicists. Important as these professional activities have been, the contributions to this volume were not prepared just for these reasons but more for Art Schawlow, the friend, colleague, and teacher. I am one who has had the privilege of knowing and collaborating with Art, probably over a longer period of time than others participating in this volume, and in a number of different enterprises his friendship and stimulating scientific abilities are a very significant part of my own life. It is hence a pleasure to take part in this volume celebrating his contributions to science and to scientists. Schawlow's career has been geographically centered at the University of Toronto, Columbia University, the Bell Telephone Laboratories, and Stanford University. But, as is illustrated by the papers of this volume, its effects and his personal influence have diffused widely. In his own work, Art Schawlow is noted for thoughtful imagination, keen physical intuition, and what might be thought an interest in gadgets, not just any gadgets but beautiful and innovative mechanisms or new techniques in which he characteristically recognizes important potentials. Holographic Interferometry in Experimental Mechanics Yuri I. Ostrovsky, Valeri P. Shchepinov, Victor V. Yakovlev, 2013-06-29 This monograph deals with diverse applications of holographic interferometry in experimental solid mechanics. Holographic interferometry has experienced a development of twenty years. It has enjoyed success and suffered some disappointments mainly due to early overestimation of its potential. At present, development of holographic

interferometry is progressing primarily as a technique for quantitative measurements. This is what motivated us to write this book to analyze the quantitative methods of holographic interferometry. The fringe patterns obtained in holographic interferometry are graphically descriptive. In the general case, however, because they contain information on the total vectors of displacement for points on the surface of a stressed body, the interpretation of these interferograms is much more complicated than in typical conventional interferometry. In addition, the high sensitivity of the method imposes new requirements on the loading of the objects under study. New approaches to designing loading fixtures are needed in many cases to ensure the desired loading conditions. The wealth of information obtained in holographic interferometry necessitates the use of modern computational mathematics. Therefore, practical implementation of the various methods of holographic interferometry must overcome substantial difficulties requiring adequate knowledge in diverse areas of science such as coherent optics, laser technology, mechanics, and applied mathematics. Experimental methods play a significant role in solid mechanics.

Photorefractive Crystals in Coherent Optical Systems Mikhail P. Petrov, Sergei I. Stepanov, Anatoly V. Khomenko, 2013-11-11. This book describes the processes of optical information recording in photorefractive crystals and applications of these materials in phase conjugating devices, holographic interferometry, optical computers, and sensors. It is in essence an extensive introduction to this new and rapidly developing area of quantum electronics. It presents physical concepts, fundamentals of theory, and important experimental data. A rigorous treatment of basic phenomena is accompanied by a quantitative analysis which makes the book interesting to experts and accessible for newcomers to the field. Of particular interest to researchers is an extensive summary of basic physical and holographic parameters of all presently known photorefractive crystals and structures, and also a detailed critical analysis of their applications.

Single-Mode Fibers Ernst-Georg Neumann, 2013-04-17. Single mode fibers are the most advanced means of transmitting information since they provide extremely low attenuation and very high bandwidths. At present, long distance communication by single mode fibers is cheaper than by conventional copper cables, and in the future, single mode fibers will also be used in the subscriber loop. Since single mode fibers have many applications, a variety of people need to understand this modern transmission medium. However, waveguiding in single mode fibers is much more difficult to understand than waveguiding in copper lines. A single mode fiber is a dielectric waveguide operated at optical wavelengths. Since 1961, I have been involved in experimental and theoretical research on dielectric rod waveguides in the microwave region. From the experiments, I learned much about the properties of a wave guided by a dielectric rod or a glass fiber, especially about its behavior at waveguide discontinuities like bends, gaps, or the waveguide end. Since 1972, my co-workers and I have also been investigating dielectric waveguides at optical frequencies, and since 1973, I have lectured on Optical Communications. These activities have shown that there is a need for a tutorial introduction to the new technical field of single mode fibers. In this book, the physical fundamentals are emphasized, and the mathematics is limited to the absolutely necessary subjects. Besides presenting a physical explanation of

waveguiding in single mode fibers it is also the aim of this book to give an overview of the knowledge accumulated in this field

Color Theory and Its Application in Art and Design George A. Agoston, 2013-06-05 This book directly addresses a long felt unsatisfied need of modern color science an appreciative and technically sound presentation of the principles and main offerings of colorimetry to artists and designers written by one of them With his unique blend of training and experience in engineering with his lifelong interest and latterly career in art and art education Dr Agoston is unusually well prepared to convey the message of color science to art and design His book fulfills the hopes I had when I first heard about him and his book I foresee important and long lasting impacts of this book analogous to those of the epoch making writings by earlier artist scientists such as Leonardo Chevreul Munsell and Pope Nearly all persons who have contributed to color science recently as well as formerly were attracted to the study of color by color in art Use of objective or scientific methods did not result from any cold detached attitude but from the inherent difficulties of the problems concerning color and its use by which they were intrigued Modern education and experience has taught many people how to tackle difficult problems by use of scientific methods Therefore color science

Electron Holography Akira Tonomura, 2013-11-11 Electron holography a two step imaging method taking advantage of light and electrons has been employed for fundamental experiments in physics as well as for high precision measurements in microscopy It continues to be advanced in its applications though the speed of the development is not high but steady together with technical improvements of both the coherent electron beam and the reconstruction system Progress has been made since the publication of the first edition of this book in 1993 and this second edition with new results integrated is herewith made available I hope that the present monograph will help develop this interesting field of electron interference further Hatoyama Akira Tonomura December 1998 v Preface to the First Edition Electron holography has recently paved a new way for observing and measuring microscopic objects and fields that were previously inaccessible employing other techniques Full use is made of the extremely short wavelength of electrons enabling electron holography to have a great impact on fields ranging from basic science to industrial applications This book will provide an overview of the present state of electron holography for scientists and engineers entering the field The principles techniques and applications which have already been developed as well as those which are expected to arise in the near future will be discussed

Laser Spectroscopy VIII Willy Persson, Sune Svanberg, 2013-11-11 The Eighth International Conference on Laser Spectroscopy EICOLS 87 was held at the Sunwing Hotel in Åre Sweden June 22-26 1987 Following the traditions of its predecessors at Vail Megeve Jackson Lake Rottach Egern Jasper Park Interlaken and Maui the intent of EICOLS 87 was to provide a forum for active scientists to meet in an informal atmosphere to discuss recent developments in laser spectroscopy The scenic and remote location of the conference venue greatly stimulated a lively and relaxed exchange of information and ideas The conference was attended by 227 scientists from 20 countries including Australia Austria Canada the People's Republic of China Denmark Finland France the Federal Republic of Germany Israel Italy

Japan The Netherlands New Zealand Norway Poland the Soviet Union Sweden Switzerland the United Kingdom and the United States The scientific program included 14 topical sessions with 50 invited talks ranging in length from 20 to 40 minutes About 70 additional invited contributions were presented in two evening poster sessions A third evening session included 4 oral and 18 poster post deadline presentations

X-Ray Microscopy II David Sayre, Malcolm Howells, Janos Kirz, Harvey Rarback, 2013-06-05 This volume is based on papers presented at the International Symposium on X Ray Microscopy held at Brookhaven National Laboratory Upton NY August 31 September 4 1987 Previous recent symposia on the subject were held in New York in 1979 Gottingen in 1983 and Taipei in 1986 Developments in x ray microscopy continue at a rapid pace with important advances in all major areas x ray sources optics and components and microscopes and imaging systems Taken as a whole the work presented here emphasizes three major directions a improvements in the capability and image quality of x ray microscopy expressed principally in systems attached to large high brightness x ray sources b greater access to x ray microscopy expressed chiefly in systems employing small often pulsed x ray sources and c increased rate of exploration of applications of x ray microscopy The number of papers presented at the symposium has roughly doubled compared with that of its predecessors While we are delighted at this growth as a manifestation of vitality and rapid growth of the field we did have to ask the authors to limit the length of their papers and to submit them in camera ready form We thank the authors for their contributions and for their efforts in adhering to the guidelines on manuscript preparation

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