

proach, and a more complete treatment of this subject will require filling in of the latter. Also lacking in the book is discussion of other phenomena that may affect long-term orbital evolution, such as the effect of the nonlinear interplay of the secular resonances discovered by Williams with close planetary encounters. In some cases, further work on such phenomena calls into question the validity of some of Opik's conclusions.

These omissions need not be a problem, provided the reader regards the book as an introduction to the important field that Opik pioneered. It may be hoped that its availability will result in more scientists' becoming his followers.

G. W. WETHERILL

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## Island Biota

**Biogeography and Ecology in the Canary Islands.** G. G. KUNKEL, Ed. Junk, The Hague, 1976. xvi, 512 pp., illus. + plates. Dfl. 160. Monographiae Biologicae, vol. 30.

Papers giving information about the natural history of the Canary Islands are countless and are scattered through periodicals that are often difficult to obtain. A summary of the subject has long been desired. Considering the difficulties of getting various specialists to write articles that together represent a substantial part of the disciplines included in "biogeography and ecology," the book Kunkel has produced is reasonably well balanced. Beyond the scope of the title, however, are contributions on place names and biochemistry. An analysis of the economic history of the islands from clearing time to tourism time would certainly have been more appreciated. The volume is attractively got up, with good illustrations. Extensive reference lists enhance its value.

The individual islands are introduced at the beginning. Together they form a chain that geographically can be considered a prolongation of the Atlas range. Hypotheses about the origin of the archipelago are numerous. According to one the islands were once part of Africa, later breaking away and drifting westward. According to another they arose as independent volcanoes from the sea bottom. Finds of fossil ostrich eggs and land turtles seem to imply that land bridges to the Continent once existed. Strictly geological facts, on the other hand, irrefu-

tably favor a purely oceanic origin. Relevant data are still insufficient, and in this volume a comprehensive report, mainly stratigraphical and petrographical, on recent progress in the geology of the islands takes a cautious attitude.

Solution of the origin problem would offer the biogeographers a firm base for discussion of the controversial question of how the archipelago received its biota. The uncertainties notwithstanding, it is generally agreed that the islands became refuges for a once widely distributed Tertiary biota which was largely exterminated in the Tethyan area as a result of catastrophes such as the desiccation of the Sahara and the extension of polar ice caps. In a paper on endemic vascular plants paleobotanical and biogeographical arguments are given for this view. For example, certain genera and families common to the Canary Islands and America but now absent from the Mediterranean area are also represented in southeastern Asia. Furthermore, primitive floral features such as higher proportions of diploids and woody forms are typical of the archipelago as compared with the Continent, where survivors had to evolve in response to more drastic climatic changes. The island isolation led to a biota very rich in endemic species and also with many endemic genera.

Indigenous mammals are absent, but a fossil rodent is known. Probably the entire fauna was once richer than it is today. A paper on recent ground beetles of laurel forests, a faunal group extremely rich in endemics, indicates that volcanic activity may have been important for the development of the fauna. The westernmost islands, Hierro and La Palma, with surface rock from relatively recent geological times, are unexpectedly poor in species compared with their next neighbor island, Gomera, which was undisturbed for a long period. On Tenerife, the middlemost island, recent patterns of distribution indicate that the fauna of an intermediate zone was not too long ago exterminated by deposition of volcanic material. Through resulting isolation vicariants evolved in the remaining zones, contributing to an especially great wealth of forms.

Other papers in the volume deal with climate, the laurisilva flora of Hierro, lichen flora and vegetation, fungus flora, bird fauna (rich in species, poor in endemics), amphibian and reptile fauna (poor in species, rich in endemics), and limnetic Crustacea.

The rapidly accelerated influence of man on vegetation and soil is accentuated in an account of introduced floral

elements and exemplified by a report on recent developments on Hierro. In these and several of the other papers mentioned it is stressed that certain species of plants and animals are on the point of being exterminated. Nature conservation is young in this part of the world, and the work before ICONA (Instituto Nacional para la Conservación de la Naturaleza) is enormous if the islands are to keep the character of a unique refuge. In the last page of text the pious hope is expressed that leaders of tourist groups could by increasing public interest contribute to the conservation of the biota. Perhaps it would be a good opening to put the present book in their hands.

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## Nonlinear Optics

**Quantum Electronics.** A Treatise. Vol. 1, Nonlinear Optics. HERBERT RABIN and C. L. TANG, Eds. Academic Press, New York, 1975. In two parts. Part A. xii pp. + pp. 1-472, illus. + index. \$35. Part B. x pp. + pp. 473-754, illus. \$22.50.

The origins of nonlinear optics are linked to the advent of powerful laser light sources some 15 years ago. This very active and still vigorously growing field is concerned with the interaction of light with matter at high intensities where the material properties, notably the dielectric susceptibilities or optical refractive indices, are themselves functions of the light-field strength. Nonlinear optics has not only led to the discovery of interesting new effects and phenomena, it is providing powerful new spectroscopic tools to study the structure of matter, and it has become the basis for an increasing number of technical applications and practical devices.

Although some of the basic concepts of nonlinear optics have become standard material in textbooks, there remains a need for up-to-date and in-depth reviews of the many research results and important details scattered throughout the primary literature. Volume 1 of *Quantum Electronics*, a well-organized and well-edited collection of reviews of selected topics, meets this need admirably. The emphasis in most of the papers is on the nonlinear optical properties of crystalline solids. Other important developments of much current interest, such as nonlinear high-resolution laser spec-

# Quantum Electronics A Treatise

**Toshiaki Suhara, Masatoshi Fujimura**



## Quantum Electronics A Treatise:

**Quantum electronics** Herbert Rabin, Chung Liang Tang, 1975      *Quantum electronics* Herbert Rabin, 1975

*Quantum Electronics* Chung Liang Tang, 1975      *Quantum Electronics: a Treatise. Vol.1* H. Rabin, C. L. Tang, 1975

**Quantum Electronics**, 1975      *Quantum electronics* Herbert Rabin, 1975      Quantum Electronics C. L. Tang, Herbert Rabin, 1975      *Quantum Electronics: Nonlinear optics, 2 v* Herbert Rabin, Chung Liang Tang, 1975      Waveguide

Nonlinear-Optic Devices Toshiaki Suhara, Masatoshi Fujimura, 2013-04-17 Nonlinear optical NLO effects make possible devices that perform many functions such as wavelength conversion and signal processing while waveguides enable the devices to be both efficient and compact This book presents a systematic description of the NLO field with an emphasis on devices that use ferroelectric waveguides The earlier chapters provide an introduction to the concepts of waveguides NLO devices coupled mode formalism and phase matching Then various NLO interactions and the related characteristics are elucidated and the fabrication of waveguides and structures for quasi phase matching are discussed The volume culminates in a survey of device implementations and applications In this respect short wavelength generation devices wavelength converters for WDM photonic networks optical parametric amplifiers and ultrafast signal processing devices are examined including the most recent experimental results      **Nonlinear Optical Properties of Organic Molecules and Crystals V1** D.S. Chemla, 2012-12-02 Nonlinear Optical Properties of Organic Molecules and Crystals Volume 1 discusses the nonlinear optical effects in organic molecules and crystals providing a classical distinction between quadratic and cubic processes This book begins with a general overview of the basic properties of organic matter followed by a review on the benefits derived from quantum chemistry based models and growth and characterization of high quality bulk organic crystals and waveguided structures A case study focusing on a specific material namely urea which exemplifies a situation in which transparency in the UV region has been purposely traded for nonlinear efficiency is also deliberated This text concludes with a description of a type of trade off between the unpredictable orientation of molecules in crystalline media polarity of liquid crystalline structures and dominant electronic contribution to the electro optic effect This publication is beneficial to solid state physicists and chemists concerned with nonlinear optical properties of organic molecules and crystals      Nonlinear Optics Robert W. Boyd, 2008-05-13 Nonlinear optics is the study of the interaction of intense laser light with matter The third edition of this textbook has been rewritten to conform to the standard SI system of units and includes comprehensively updated material on the latest developments in the field The book presents an introduction to the entire field of optical physics and specifically the area of nonlinear optics covering fundamental issues and applied aspects of this exciting area Nonlinear Optics will have lasting appeal to a wide audience of physics optics and electrical engineering students as well as to working researchers and engineers Those in related fields such as materials science and chemistry will also find this book of particular interest Presents an introduction to the entire field of optical physics from the perspective of nonlinear optics

Combines first rate pedagogy with a treatment of fundamental aspects of nonlinear optics Covers all the latest topics and technology in this ever evolving industry Strong emphasis on the fundamentals      **Beam Shaping and Control with Nonlinear Optics** F. Kajzar,R. Reinisch,2006-04-11 The field of nonlinear optics which has undergone a very rapid development since the discovery of lasers in the early sixties continues to be an active and rapidly developing search area The interest is mainly due to the potential applications of nonlinear optics rectly in telecommunications for high rate data transmission image processing and recognition or indirectly from the possibility of obtaining large wavelength range tuneable lasers for applications in industry medicine biology data storage and retrieval etc New phenomena and materials continue to appear regularly renewing the field This has proven to be especially true over the last five years New materials such as organics have been developed with very large second and third order nonlinear optical responses Imp tant developments in the areas of photorefractivity all optical phenomena frequency conv sion and electro optics have been observed In parallel a number of new phenomena have been reported some of them challenging the previously held concepts For example solitons based on second order nonlinearities have been observed in photorefractive materials and frequency doubling crystals destroying the perception that third order nonlinearities are quired for their generation and propagation New ways of creating and manipulating nonl ear optical materials have been developed An example is the creation of highly nonlinear second order active polymers by static electric field photo assisted or all optical poling Nonlinear optics involves by definition the product of electromagnetic fields As a con quence it leads to the beam control      Semiconductor Physics Karl W. Böer,Udo W. Pohl,2023-02-02 This handbook gives a complete and detailed survey of the field of semiconductor physics It addresses every fundamental principle the most important research topics and results as well as conventional and emerging new areas of application Additionally it provides all essential reference material on crystalline bulk low dimensional and amorphous semiconductors including valuable data on their optical transport and dynamic properties This updated and extended second edition includes essential coverage of rapidly advancing areas in semiconductor physics such as topological insulators quantum optics magnetic nanostructures and spintronic systems Richly illustrated and authored by a duo of internationally acclaimed experts in solar energy and semiconductor physics this handbook delivers in depth treatment of the field reflecting a combined experience spanning several decades as both researchers and educators Offering a unique perspective on many issues Semiconductor Physics is an invaluable reference for physicists materials scientists and engineers throughout academia and industry      **Excited States V3** Edward Lim,2012-12-02 Excited States Volume 3 deals with excited states and covers topics ranging from two photon molecular spectroscopy in liquids and gases to time evolution of excited molecular states Product energy distributions in the dissociation of polyatomic molecules are also discussed along with the mechanism of optical nuclear polarization in molecular crystals and vibronic interactions and luminescence in aromatic molecules with non bonding electrons Comprised of five chapters this volume begins with a didactic treatment of

the theory of simultaneous two photon absorption spectroscopy from the point of view concerned primarily with molecular gases and liquids The basic theoretical quantity is shown to be an absorption tensor as contrasted with the absorption vector of one photon spectroscopy The next chapter considers the time evolution of a molecular system interacting with a photon wave packet The theory is applied to handle photon scattering from several physical models for molecular level structure in excited electronic states of polyatomic molecules The remaining chapters explore various polyatomic decomposition processes and the basic features governing the internal energy distribution of the fragments optical nuclear polarization in molecular crystals and vibronic interactions and luminescence in aromatic molecules with non bonding electrons This book should be of interest to chemists and molecular physicists

**Contemporary Nonlinear Optics** Robert Boyd, 2012-12-02

Contemporary Nonlinear Optics discusses the different activities in the field of nonlinear optics The book is comprised of 10 chapters Chapter 1 presents a description of the field of nonlinear guided wave optics Chapter 2 surveys a new branch of nonlinear optics under the heading optical solitons Chapter 3 reviews recent progress in the field of optical phase conjugation Chapter 4 discusses ultrafast nonlinear optics a field that is growing rapidly with the ability of generating and controlling femtosecond optical pulses Chapter 5 examines a branch of nonlinear optics that may be termed nonlinear quantum optics Chapter 6 reviews the new field of photorefractive adaptive neural networks Chapter 7 presents a discussion of recent successes in the development of nonlinear optical media based on organic materials Chapter 8 reviews the field of nonlinear optics in quantum confined structures Chapter 9 reviews the field of nonlinear laser spectroscopy with emphasis on advances made during the 1980s Finally Chapter 10 reviews the field of nonlinear optical dynamics by considering nonlinear optical systems that exhibit temporal spatial or spatio temporal instabilities This book is a valuable source for physicists and other scientists interested in optical systems and neural networks

*Solid-State Lasers and Applications* Alphan

Sennaroglu, 2017-12-19 Because of the favorable characteristics of solid state lasers they have become the preferred candidates for a wide range of applications in science and technology including spectroscopy atmospheric monitoring micromachining and precision metrology Presenting the most recent developments in the field Solid State Lasers and Applications focuses on the design and applications of solid state laser systems With contributions from leading international experts the book explores the latest research results and applications of solid state lasers as well as various laser systems The beginning chapters discuss current developments and applications of new solid state gain media in different wavelength regions including cerium doped lasers in the ultraviolet range ytterbium lasers near 1  $\mu$ m rare earth ion doped lasers in the eye safe region and tunable Cr<sup>2+</sup> ZnSe lasers in the mid infrared range The remaining chapters study specific modes of operation of solid state laser systems such as pulsed microchip lasers high power neodymium lasers ultrafast solid state lasers amplification of femtosecond pulses with optical parametric amplifiers and noise characteristics of solid state lasers Solid State Lasers and Applications covers the most important aspects of the field to provide current comprehensive

coverage of solid state lasers      **Free-Space Laser Communications** Arun K. Majumdar, Jennifer C Ricklin, 2010-05-05

Free space laser communications also referred to as optical communications is a popular subject in today's technological marketplace. A number of conferences on this subject have been organized by professional societies such as SPIE the International Society of Photo Optical and Instrumentation Engineering, OSA Optical Society of America and IEEE Institute of Electrical and Electronics Engineers. The evolving technology of free space laser communications is emerging as an appealing alternative to RF communications for links between satellites as well as a promising addition to terrestrial applications such as video or computer linkups between buildings. There is a pressing need for more information on laser communications that is comprehensive enough to provide in depth knowledge of free space communications and that can satisfy the current demands of the research and commercial needs. This book has been designed to provide a comprehensive unified tutorial to further understanding of the fundamental techniques for laser communications through the earth's atmosphere. The driving force behind free space laser communications is the continuous demand for higher bandwidth to deliver high capacity voice data and images to the customer. Free space propagation distances include ranges that encompass a few millimeters for example between optical interconnects in a computer using photonics to replace metal interconnects, a few meters such as indoor communications, a few kilometers between buildings, campuses and hospitals and even up to thousands of kilometers such as from an aircraft or satellite to the ground.

**Nonlinear Optical Materials V.** Degiorgio, Christos Flytzanis, Società italiana di fisica, 1995

Nonlinear optical materials play a pivotal role in the future evolution of nonlinear optics in general and its impact in technology and industrial applications in particular. The progress in nonlinear optics has been tremendous since the first demonstration of an all optical nonlinear effect in the early sixties but until recently the main visible emphasis was on the physical aspects of the nonlinear radiation-matter interaction. In the last decade however this effort has also brought its fruits in applied aspects of nonlinear optics. This can be essentially traced to the improvement of the performances of the nonlinear optical materials. Our understanding of the nonlinear polarization mechanisms and their relation to the structural characteristics of the materials has been considerably improved. In addition the new development of techniques for the fabrication and growth of artificial materials has dramatically contributed to this evolution. The goal is to find and develop materials presenting large nonlinearities and satisfying at the same time all the technological requirements for applications such as wide transparency range, fast response, high damage threshold but also processability, adaptability and interfacing with other materials. Improvements besides rendering possible the implementation of nonlinear effects in devices open the way to the study of new nonlinear optical effects and the introduction of new concepts. This book describes new concepts which are emerging in the field of nonlinear optical materials, concentrating the attention on materials which seem more promising for applications in the technology of information transmission and processing.

Guided Wave Nonlinear Optics D.B. Ostrowsky, R. Reinisch, 2012-12-06

The object of this school held at

Cargese Corsica France from August 12th to 24th 1991 was the presentation of the field of guided wave nonlinear optics in a comprehensive coherent and heuristic fashion. It seems appropriate that this school began with an historical introduction by Professor Nicolaas Bloembergen of Harvard, the acknowledged father of nonlinear optics in general, and concluded with a round table discussion headed by Dr Eric Spitz, the Scientific Director of a multinational electronics company interested in developing industrial applications of guided wave nonlinear optics. The lectures covered both the theoretical framework of the field and applications to basic scientific research, optical communications, and technical instrumentation. Specific topics developed included materials for guided wave nonlinear optics, nonlinear interactions using integrated optical guides, nonlinear surface waves, solitons, fiber nonlinear optics, ultra fast coupler switching, as well as the related topic of fiber and integrated optical lasers and amplifiers. Lectures have also been devoted to squeezed states, chaos, and strange attractors. The subjects covered by the school underline one of the major ways in which this field has evolved over the past thirty some odd years. The path from the original experiments with materials requiring mega watt power lasers to the recent developments in guided wave configurations using milliwatt power diode lasers is marked by the conjunction of ever improving fundamental scientific comprehension and continuing technological developments. *Progress in Optics*, 1990-08-15 Volume XXVIII contains five review articles covering the following areas: digital holography, a field that has found useful applications in connection with data processing and data storage for 3 d displays and in providing new types of optical components for example holographic gratings; basic investigations concerned with new technologies that may lead to better optical communication systems and improved limits of measurement than are expected from the traditional interpretation of quantum mechanical measurement theory; a review of our current understanding of quantum coherence; properties of stimulated Raman scattering; an account of techniques developed in recent years in the field of interferometry for improvements of high precision measurements; the fascinating phenomenon of quantum jumps which were introduced in the theory of atomic spectra by Niels Bohr in 1913.

The book delves into Quantum Electronics A Treatise. Quantum Electronics A Treatise is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Quantum Electronics A Treatise, encompassing both the fundamentals and more intricate discussions.

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6. In chapter 5, the author will draw a conclusion about Quantum Electronics A Treatise. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Quantum Electronics A Treatise.

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