

Zbigniew Ficek
Stuart Swain

Quantum Interference and Coherence

Theory and Experiments

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Zhe-Yu Jeff Ou



Quantum Interference And Coherence Theory And Experiments:

Quantum Interference and Coherence Zbigniew Ficek, Stuart Swain, 2005-09-12 The eld that encompasses the term quantum interference combines a number of separate concepts and has a variety of manifestations in d ferent areas of physics In the sense considered here quantum interference is concerned with coherence and correlation phenomena in radiation elds and between their sources It is intimately connected with the phenomenon of non separability or entanglement in quantum mechanics On account of this it is obvious that quantum interference may be regarded as a com nent of quantum information theory which investigates the ability of the electromagnetic eld to transfer information between correlated entangled systems Since it is important to transfer information with the minimum of corruption the theory of quantum interference is naturally related to the theory of quantum uctuations and decoherence Since the early days of quantum mechanics interference has been scribed as the real quantum mystery Feynman in his famous introduction to the lectures on the single particle superposition principle referred in the following way to the phenomenon of interference it has in it the heart of quantum mechanics and it is really the only mystery of quantum mech ics With the development of experimental techniques it has been possible to carry out many of the early Gedanken experiments that played an important role in developing our understanding of the fundamentals of quantum int ference and entanglement Despite its long history quantum interference still challenges our understanding and continues to excite our imagination [Quantum Interference and Coherence](#) Zbigniew Ficek, Stuart Swain, 2008-11-01 The eld that encompasses the term quantum interference combines a number of separate concepts and has a variety of manifestations in d ferent areas of physics In the sense considered here quantum interference is concerned with coherence and correlation phenomena in radiation elds and between their sources It is intimately connected with the phenomenon of non separability or entanglement in quantum mechanics On account of this it is obvious that quantum interference may be regarded as a com nent of quantum information theory which investigates the ability of the electromagnetic eld to transfer information between correlated entangled systems Since it is important to transfer information with the minimum of corruption the theory of quantum interference is naturally related to the theory of quantum uctuations and decoherence Since the early days of quantum mechanics interference has been scribed as the real quantum mystery Feynman in his famous introduction to the lectures on the single particle superposition principle referred in the following way to the phenomenon of interference it has in it the heart of quantum mechanics and it is really the only mystery of quantum mech ics With the development of experimental techniques it has been possible to carry out many of the early Gedanken experiments that played an important role in developing our understanding of the fundamentals of quantum int ference and entanglement Despite its long history quantum interference still challenges our understanding and continues to excite our imagination **Quantum Interference and Coherence** Zbigniew Ficek, Stuart Swain, 2005-09-12 The eld that encompasses the term quantum interference combines a number of separate concepts and has a variety of manifestations in

different areas of physics In the sense considered here quantum interference is concerned with coherence and correlation phenomena in radiation fields and between their sources It is intimately connected with the phenomenon of non separability or entanglement in quantum mechanics On account of this it is obvious that quantum interference may be regarded as a component of quantum information theory which investigates the ability of the electromagnetic field to transfer information between correlated entangled systems Since it is important to transfer information with the minimum of corruption the theory of quantum interference is naturally related to the theory of quantum fluctuations and decoherence Since the early days of quantum mechanics interference has been scribed as the real quantum mystery Feynman in his famous introduction to the lectures on the single particle superposition principle referred in the following way to the phenomenon of interference it has in it the heart of quantum mechanics and it is really the only mystery of quantum mechanics With the development of experimental techniques it has been possible to carry out many of the early Gedanken experiments that played an important role in developing our understanding of the fundamentals of quantum interference and entanglement Despite its long history quantum interference still challenges our understanding and continues to excite our imagination **Multi-Photon**

Quantum Interference Zhe-Yu Jeff Ou, 2007-06-08 Multi Photon Quantum Interference covers the phenomena of quantum interference through the multi photon effects of photon correlation The author's focus is on the temporal correlation among photons and how it influences the interference effect Included is discussion of some of the well known multi photon interference schemes such as Hong Ou Mandel interferometer and Franson Interferometer for two photon system quantum state teleportation and swapping for four photon system and quantum state reconstruction for multi photon system A unique feature of the book is its quantitative characterization of photon indistinguishability and its connection to interference effects

Atomic and Molecular Nonlinear Optics: Theory, Experiment and Computation G. Maroulis, T. Bancewicz, B. Champagne, 2011-05-27 The papers collected in this volume in honor of the late Stanisław Kielich cover an impressive range of modern subjects in molecular science These subjects include among others the nonlinear optics of molecules new approaches to the electronic structure of large molecules the properties of carbon nanotubes fluorescence polarization spectroscopy computational studies of systems of fundamental interest to collision induced spectroscopy the simulation of fluids NLO materials chemical bonding in complex molecules the NLO properties of functionalized DNA and the magnetic properties of molecular assemblies Written by eminent specialists the papers should offer valuable guidance to a wide community of graduate students and researchers *Fundamentals of Photonics* Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04 Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as

the interaction of light and matter Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated

Quantum Physics for Beginners Zbigniew Ficek, 2017-03-03 The textbook covers the background theory of various effects discussed from first principles as clearly as possible to introduce students to the main ideas of quantum physics and to teach the basic mathematical methods and techniques used in the fields of advanced quantum physics atomic physics laser physics nanotechnology quantum chemistry and theoretical mathematics Many of the predictions of quantum physics appear to be contrary to our intuitive perceptions and the student will learn how it comes about that microscopic objects particles behave in unusual ways that are called quantum effects what we mean by quantum and where this idea came from The textbook is supplemented with Problems and Solutions in Quantum Physics which contains a wide range of tutorial problems from simple confidence builders to fairly challenging problems that provide adequate understanding of the basic concepts of quantum physics

Quantum Light for Imaging, Sensing and Spectroscopy Roberto de J. León-Montiel, Mario Alan Quiroz-Juarez, Omar Magana-Loaiza, Juan Torres, 2022-11-07

3rd International Conference on Nanotechnologies and Biomedical Engineering Victor Sontea, Ion Tiginyanu, 2015-09-23 This volume presents the proceedings of the 3rd International Conference on Nanotechnologies and Biomedical Engineering which was held on September 23-26 2015 in Chisinau Republic of Moldova ICNBME 2015 continues the series of International Conferences in the field of nanotechnologies and biomedical engineering It aims at bringing together scientists and engineers dealing with fundamental and applied research for reporting on the latest theoretical developments and applications involved in the fields Topics include Nanotechnologies and nanomaterials Plasmonics and metamaterials Bio micro nano technologies Biomaterials Biosensors and sensors systems Biomedical instrumentation Biomedical signal processing Biomedical imaging and image processing Molecular cellular and tissue engineering Clinical engineering health technology management and assessment Health informatics e health and telemedicine Biomedical engineering education Nuclear and radiation safety and security Innovations and technology transfer

Progress in Nano-Electro-Optics V Motoichi Ohtsu, 2007-01-10 Focusing on nanophotonics which has been proposed by M Ohtsu in 1993 this volume begins with theories for operation principles of characteristic nanophotonic devices and continues with novel optical near field phenomena for fabricating nanophotonic devices Further topics include unique properties of optical near fields and their applications to operating nanophotonic devices and nanophotonic

information and communications systems that can overcome the integration density limit with ultra low power operation as well as unique functionalities Taken as a whole this overview will be a valuable resource for engineers and scientists working in the field of nano electro optics

Laser Resonators and Beam Propagation Norman Hodgson,Horst Weber,2005-12-19 Optical Resonators provides a detailed discussion of the properties of optical resonators for lasers from basic theory to recent research In addition to describing the fundamental theories of resonators such as geometrical optics diffraction and polarisation the characteristics of all important resonator schemes and their calculation are presented Experimental examples practical problems and a collection of measurement techniques support the comprehensive treatment of the subject Optical Resonators is the only book currently available that provides a comprehensive overview of the the subject Combined with the structure of the text and the autonomous nature of the chapters this work will be as suitable for those new to the field as it will be invaluable to specialists conducting research This second edition has been enlarged by new sections on Q switching and resonators with internal phase amplitude control

Frontiers in Optics and Photonics Federico Capasso,Dennis Couwenberg,2021-06-08 This book provides a cutting edge research overview on the latest developments in the field of Optics and Photonics All chapters are authored by the pioneers in their field and will cover the developments in Quantum Photonics Optical properties of 2D Materials Optical Sensors Organic Opto electronics Nanophotonics Metamaterials Plasmonics Quantum Cascade lasers LEDs Biophotonics and biomedical photonics and spectroscopy

Optoelectronics of Molecules and Polymers André Moliton,2010-05-30 Optoelectronic devices are currently being developed at an extraordinary rate Organic light emitting diodes photovoltaic devices and electro optical modulators are pivotal to the future of displays photosensors and solar cells and communication technologies This book details the theories underlying the mechanisms involved in the relevant organic materials and covers at a basic level how the organic components are made The first part of the book introduces the fundamental theories used to describe ordered solids and goes onto detail on concepts applicable to localised energy levels Then the methods used to determine energy levels particular to perfectly ordered molecular and macromolecular systems are discussed along with a detailed consideration of the effects of quasi particles The function of excitons and their transfer between two molecules is studied and in addition the problems associated with interfaces and charge injection into resistive media are presented More technological aspects are covered in the second part which details the actual methods used to fabricate devices based on organic materials such as dry etching The principal characterisation techniques are also highlighted Specific attention is paid to visual displays using organic light emitting diodes the conversion of photons into electrical energy the photovoltaic effect and for communications and information technologies the electro optical modulation of signals

High Power Diode Lasers Friedrich Bachmann,Peter Loosen,Reinhart Poprawe,2007-05-26 This book summarizes a five year research project as well as subsequent results regarding high power diode laser systems and their application in materials processing The text explores

the entire chain of technology from the semiconductor technology through cooling mounting and assembly beam shaping and system technology to applications in the processing of such materials as metals and polymers Includes theoretical models a range of important parameters and practical tips

Kramers-Kronig Relations in Optical Materials Research Valerio Lucarini, Jarkko J. Saarinen, Kai-Erik Peiponen, Erik M. Vartiainen, 2005-04-18 The Kramers

Kronig relations constitute the mathematical formulation of the fundamental connection between the in phase to the out of phase response of a system to a sinusoidal time varying external perturbation Such connection exists in both classical and quantum physical systems and derives directly from the principle of causality Apart from being of great importance in high energy physics statistical physics and acoustics at present the Kramers Kronig relations are basic and widely accepted tools for the investigation of the linear optical properties of materials since they allow performing the so called inversion of optical data i.e. acquiring knowledge on dispersive phenomena by measurements of absorptive phenomena over the whole energy spectrum or vice versa Since the late 80s a growing body of theoretical results as well as of experimental evidences has shown that the Kramers Kronig relations can be adopted for efficiently acquiring knowledge on nonlinear optical phenomena These results suggest that the Kramers Kronig relations may become in a near future standard techniques in the context of nonlinear spectroscopy This book is the first comprehensive treatise devoted to providing a unifying picture of the physical backgrounds of the rigorous mathematical theory and of the applications of the Kramers Kronig relations in both fields of linear and nonlinear optical spectroscopy Some basic programs written for the MATLAB environment are also included This book is organized as an argumentative discourse progressing from the linear to the nonlinear phenomena from the general to the specifics and from the theoretical to the experimental results

Semiconductor Lasers Junji Ohtsubo, 2006 This monograph describes fascinating recent progress in the field of chaos stability and instability of semiconductor lasers Applications and future prospects are discussed in detail The book emphasizes the various dynamics induced in semiconductor lasers by optical and electronic feedback optical injection and injection current modulation Recent results of both theoretical and experimental investigations are presented Demonstrating applications of semiconductor laser chaos control and noise Semiconductor Lasers describes suppression and chaotic secure communications For those who are interested in optics but not familiar with nonlinear systems a brief introduction to chaos analysis is presented

Photonic Quantum Technologies Mohamed Benyoucef, 2023-05-04 Photonic Quantum Technologies Brings together top level research results to enable the development of practical quantum devices In Photonic Quantum Technologies Science and Applications the editor Mohamed Benyoucef and a team of distinguished scientists from different disciplines deliver an authoritative one stop overview of up to date research on various quantum systems This unique book reviews the state of the art research in photonic quantum technologies and bridges the fundamentals of the field with applications to provide readers from academia and industry in one location resource with cutting edge knowledge they need to have to understand and develop practical

quantum systems for application in e.g. secure quantum communication, quantum metrology and quantum computing. The book also addresses fundamental and engineering challenges en route to workable quantum devices and ways to circumvent or overcome them. Readers will also find a thorough introduction to the fundamentals of quantum technologies including discussions of the second quantum revolution by Nobel Laureate Alain Aspect, solid state quantum optics and non-classical light and quantum entanglement. Comprehensive explorations of emerging quantum technologies and their practical applications including quantum repeaters, satellite-based quantum communication, quantum networks, silicon quantum photonics, integrated quantum systems and future vision. Practical discussions of quantum technologies with artificial atoms, color centers, 2D materials, molecules, atoms, ions and optical clocks. Perfect for molecular and solid state physicists. Photonic Quantum Technologies: Science and Applications will also benefit industrial and academic researchers in photonics and quantum optics, graduate students in the field, engineers, chemists and computer and material scientists. **Light Scattering**

by Systems of Particles Adrian Doicu, Thomas Wriedt, Yuri A. Eremin, 2006-10-19. This book develops the theory of the null field method, also called T matrix method, covering almost all aspects and current applications. This book also incorporates FORTRAN programs and simulation results. Worked examples of the application of the FORTRAN programs show readers how to adapt or modify the programs for their specific application. Surface Plasmon Nanophotonics Mark L.

Brongersma, Pieter G. Kik, 2007-09-18. This book discusses a new class of photonic devices known as surface plasmon nanophotonic structures. The book highlights several exciting new discoveries while providing a clear discussion of the underlying physics, the nanofabrication issues and the materials considerations involved in designing plasmonic devices with new functionality. Chapters written by the leaders in the field of plasmonics provide a solid background to each topic.

Thermal Processes Using Attosecond Laser Pulses Mirosław Kozłowski, Janina Marciak-Kozłowska, 2006-09-27. This book is based on the results of our interest in the field of ultrashort laser pulses interaction with matter. The aim of our monograph was to build the balanced description of the thermal transport phenomena generated by laser pulses shorter than the characteristic relaxation time. In the book we explore the matter on the quark, nuclear as well as atomic scales. Also on the cosmic scale, Planck Era, the thermal disturbance shorter than the Planck time creates the new picture of the Universe. The mathematics, especially PDE, are the main tool in the description of the ultrashort thermal phenomena. Two types of the PDE, parabolic and hyperbolic partial differential equations, are of special interest in the study of the thermal processes. We assume a moderate knowledge of basic Fourier and d'Alembert equations. The scope of the book is deliberately limited to the background of the quantum mechanics equations, Schrödinger and Klein-Gordon. In this book, the attosecond laser pulses are the main source of the disturbance of the thermal state of the matter. Recently, the attosecond laser pulses constitute a novel tool for probing processes taking place on the time scale of electron motion inside atoms. The research presented in this book appears to provide the basic tools and concepts for attosecond thermal dynamics. Nevertheless, much research is still needed.

to make this emerging field routinely applicable for a broad range of processes on atomic and subatomic scales

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