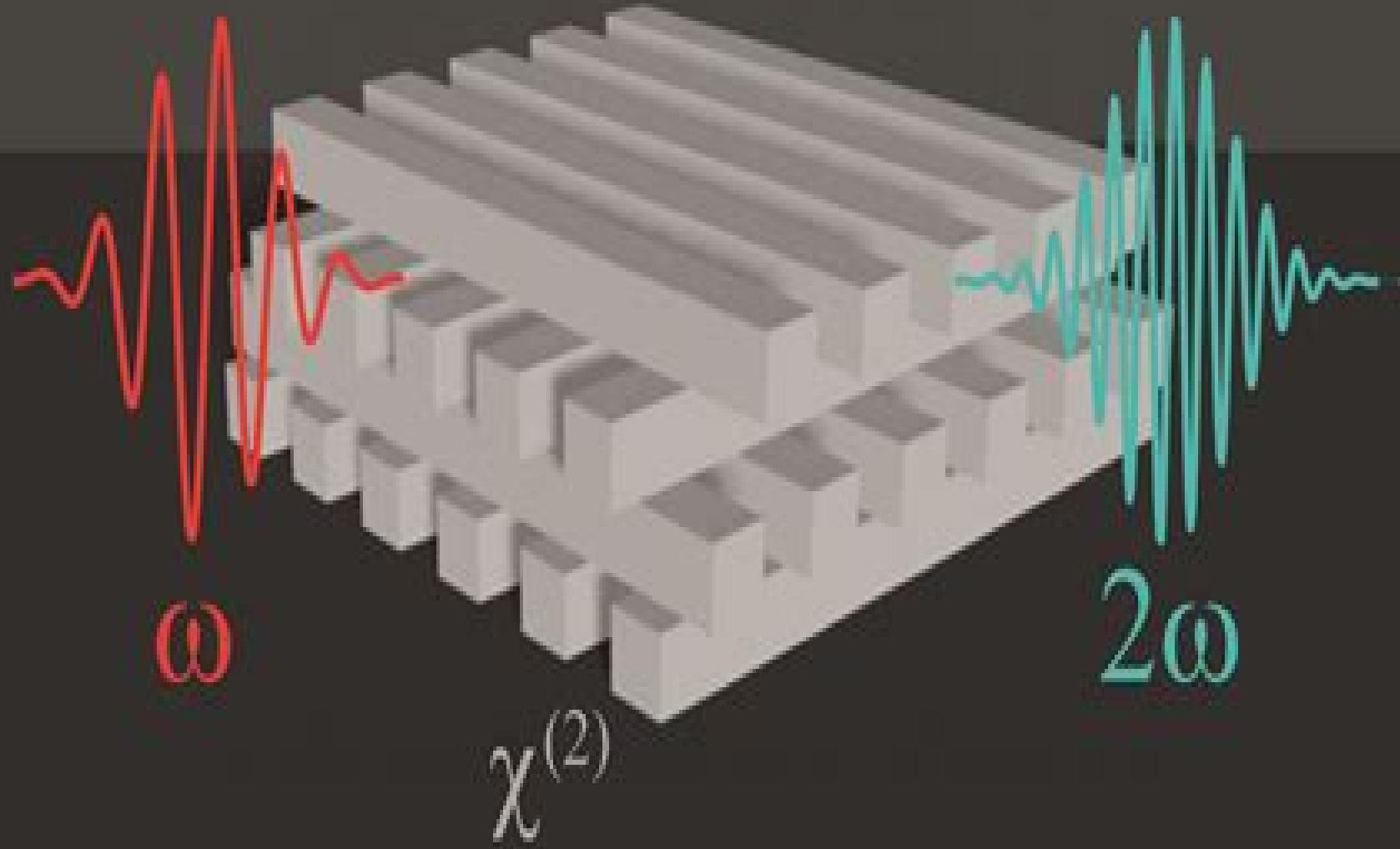


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# Nonlinear Photonic Crystals

**William T. M. Irvine**

## **Nonlinear Photonic Crystals:**

Nonlinear Photonic Crystals Richart E. Slusher, Benjamin J. Eggleton, 2013-06-29 Nonlinear optical studies of periodic dielectric structures have blossomed in the past two decades. New fabrication techniques are producing fiber grating and multidimensional photonic crystals in materials where the refractive index can be varied by light pulses and beams. Gap solitons that can propagate at any velocity from zero to the speed of light and spatial solitons that prevent the diffractive spread of light in waveguide arrays are two examples of the new phenomena described in this book. Microstructured optical fibers allow control of the guided mode dispersion for broadband light generation and new soliton phenomena. Many new materials and structures are being developed that will impact new optical devices with applications in optical communications and optical data processing. All the above topics are addressed in detail in this book.

**Nonlinear Optics of Photonic Crystals and Meta-Materials** Arthur R. McGurn, 2015-09-30 The study of dark matter in both astrophysics and particle physics has emerged as one of the most active and exciting topics of research in recent years. This book reviews the history behind the discovery of missing mass or unseen mass in the Universe and ties this into the proposed extensions to the Standard Model of Particle Physics such as Supersymmetry which were being proposed within the same time frame. This book is written as an introduction to these problems at the forefront of astrophysics and particle physics with the goal of conveying the physics of dark matter to beginning undergraduate majors in scientific fields. The book goes onto describe existing and upcoming experiments and techniques which will be used to detect dark matter either directly or indirectly.

Parametric Interactions in Ordered and Disordered Nonlinear Photonic Crystals Ksawery Kajetan Kalinowski, 2013. Parametric interactions are one of the oldest studied phenomenon in nonlinear optics. The nonlinear light matter light interaction allows one to generate light at any wavelength within the transmission band of a nonlinear crystal. It is known that the efficiency of the harmonic generation process strongly depends on the phase mismatch between interacting waves and in order to observe harmonic generation some technique has to be implemented. The spatially periodic modulation of the sign of nonlinearity is one of the solutions to this phase mismatch problem. Such structures called nonlinear photonic crystals are nowadays widely realized. Proper design of the nonlinearity modulation gives one a great control over the properties of a newly generated harmonic. The purpose of this thesis is the theoretical analysis of possible phase matching schemes and the experimental investigation of nonlinear scattering processes. The nonlinear structures under consideration in this work are periodic and strongly disordered 1D nonlinear gratings, 2D random nonlinear photonic crystals and a single boundary between two regions of different nonlinearity. Chapter 1 provides a general introduction to aspects of frequency conversion relevant to the topic of this thesis. Basic terms used in quadratic parametric processes are defined. The fundamental theory of harmonic generation in nonlinear crystals is presented. Phase matching techniques in homogeneous and periodic structures are reviewed followed by an introduction to nonlinear diffraction mechanisms in one and two dimensional nonlinear gratings.

Chapter 2 contains a theoretical study of parametric wave interaction in nonlinear optical media with a randomized distribution of quadratic nonlinearity. In particular, it shows how the transition from an ideal periodic structure to a fully random structure affects properties of the second and cascaded third harmonic generation. Analytical formulas describing properties of such harmonics in the presence of nonlinearity disorder are derived. In chapter 3 we study theoretically and numerically the second harmonic generation in a two dimensional nonlinear crystal with a random distribution of ferroelectric domains. We numerically generate a disordered structure composed of semi circular ferroelectric domains of random size and random position. Aside from presenting numerical simulations we show that the strict model presented in chapter 2 can be successfully applied to 2D random structures. We show that the specific features of disordered domain structures greatly affect the emission pattern of the generated harmonics. In chapter 4 and chapter 5 we study experimentally and theoretically the Cerenkov type second harmonic generation in a one dimensional nonlinear photonic crystal. We demonstrate that the power of emitted second harmonic can be enhanced by varying the angle of incidence of the fundamental beam such that the reciprocal lattice vectors of the crystal can be used to compensate for the phase mismatch in the transverse direction. We also experimentally investigate the Cerenkov second harmonic tuning response to a wavelength and the position of the incident beam. We reveal that in contrast to the classic second harmonic generation whose tuning response is determined by the superlattice itself the sensitivity of the Cerenkov harmonic intensity depends strongly on the width of the incident beam.

**Introduction Nonlinear Optics Photonic** MCGURN,2021-11 Introduction to Nonlinear Optics of Photonic Crystals and Metamaterials Second Edition presents concise examples illustrating the basic principles of the field embedding a discussion of current and future device applications in a theoretical account of the non linear behaviour of light at nanoscale to produce an informative and authoritative introduction to the subject for students trying to advance rapidly amongst the vanguard of modern applied physics and engineering. Pitched at an accessible level this survey of some of the most important fundamentals of the field is ideal for researchers undergraduate and graduate students as well as self taught students looking to expand their field of interest. Key Features Provides reference to the current research literature to facilitate the reader with pursuing topics within the field. Suitable for self study students. Includes concise presentations which focuses on the essential basic principle of the field. Discusses a review of current device applications. Presents the principles of photonic crystals and metamaterials and their applications at a basic level.

**Generation and Manipulation of Light in Nonlinear Photonic Crystals** Tal Ellenbogen,2009 **Arbeiten aus dem sexualpsychologischen Seminar** ,1924 *Nonlinearities in Periodic Structures and Metamaterials* Cornelia Denz, Sergej Flach, Yuri S. Kivshar, 2010-03-11 Optical information processing of the future is associated with a new generation of compact nanoscale optical devices operating entirely with light. Moreover adaptive features such as self guiding reconfiguration and switching become more and more important. Nonlinear devices offer an enormous potential for these applications.

Consequently innovative concepts for all optical communication and information technologies based on nonlinear effects in photonic crystal physics and nanoscale devices as metamaterials are of high interest. This book focuses on nonlinear optical phenomena in periodic media such as photonic crystals, optically induced adaptive lattices, atomic lattices or metamaterials. The main purpose is to describe and overview new physical phenomena that result from the interplay between nonlinearities and structural periodicities and is a guide to actual and future developments for the expert reader in optical information processing as well as in the physics of cold atoms in optical lattices. All-optical Processing in Nonlinear Photonic Crystals

Ayelet Ganany-Padowicz, 2012. **Nonlinear optical polymeric photonic crystals** Markus Schmidt, 2006. Optical Solitons Yuri S. Kivshar, Govind P. Agrawal, 2003-06-12. The current research into solitons and their use in fiber optic communications is very important to the future of communications. Since the advent of computer networking and high speed data transmission technology people have been striving to develop faster and more reliable communications media. Optical pulses tend to broaden over relatively short distances due to dispersion but solitons on the other hand are not as susceptible to the effects of dispersion and although they are subject to losses due to attenuation they can be amplified without being received and re-transmitted. This book is the first to provide a thorough overview of optical solitons. The main purpose of this book is to present the rapidly developing field of Spatial Optical Solitons starting from the basic concepts of light self focusing and self trapping. It will introduce the fundamental concepts of the theory of nonlinear waves and solitons in non-integrated but physically realistic models of nonlinear optics including their stability and dynamics. Also it will summarize a number of important experimental verification of the basic theoretical predictions and concepts covering the observation of self focusing in the earlier days of nonlinear optics and the most recent experimental results on spatial solitons, vortex solitons and soliton interaction spiraling. Introduces the fundamental concepts of the theory of nonlinear waves and solitons through realistic models. Material is based on authors years of experience actively working in and researching the field. Summarizes the most important experimental verification of the basic theories, predictions and concepts of this ever evolving field from the earliest studies to the most recent. Modelling of Photonic Components Based on ÷(3)nonlinear Photonic Crystals Ivan Maksymov, Universitat Rovira i Virgili. Departament d'Enginyeria Electrònica, Elèctrica i Automàtica, 2010

*Introduction to Nonlinear Optics of Photonic Crystals and Metamaterials (Second Edition)* Arthur R. McGurn, 2021-11. Introduction to Nonlinear Optics of Photonic Crystals and Metamaterials Second Edition presents concise examples illustrating some of the basic principles of nanophotonics embedding a discussion of current and future device applications in a theoretical account of the non linear behaviour of light at nanoscale. It is an excellent access point for the current literature on nanophotonics ideal for researchers, undergraduate and graduate students. **Modelling of Photonic Components Based on ÷(3)nonlinear Photonic Crystals** Ivan Maksymov, Universitat Rovira i Virgili. Departament d'Enginyeria Electrònica, Elèctrica i Automàtica, Universitat Rovira i Virgili. Escola Tècnica Superior d'Enginyeria de Tarragona, 2006

## **Efficient Frequency Conversion in Engineered Nonlinear Photonic Crystals** Roy Shiloh,2011 Single Photons in

Nonlinear Photonic Crystals and Studies on Electromagnetic Knots William T. M. Irvine,2006 We explore the possibility of generating and manipulating single photon states through all optical chi 2 nonlinear interactions in photonic crystals In particular two schemes are presented one for the generation of entangled photon pairs by parametric down conversion in one dimensional nonlinear photonic crystals Bragg stacks and one for the observation of strong coupling between single photons in semiconductor micro cavities Both schemes aim to combine the exceptionally high value of the chi 2 nonlinearity of GaAs with the recently developed technology for the fabrication of nanometer scale structures that geometrically influence the properties of light In a second unrelated part of the thesis we describe some solutions to Maxwell s equations that have interesting topological properties This is part of a more speculative project aimed at creating the solutions in the lab

Nonlinear Optics of Photonic Crystals Optical Society of America,2002 Nonlinear Photonic Crystal Devices Isabelle Cestier,Tekhniyon, Makhon tekhnologi le-Yisra'el. Fakultah le-handasat hashmal,2013 Photonic Crystals Qihuang Gong,Xiaoyong Hu,2014-02-06 This book provides a broad overview of photonic crystals and as the title suggests covers their principles and applications It is written from a physics point of view with an emphasis on materials science Equations are well explained and often completely avoided to increase the readability of the book The book is divided into eight chapters st

Photonic Crystals: Physics and Technology Concita Sibilia,Trevor M. Benson,Marian Marciniak,Tomasz Szoplik,2009-02-03 The aim of the work is give an overview of the activity in the field of Photonic Crystal developed in the frame of COST P11 action The main objective of the COST P11 action was to unify and coordinate national efforts aimed at studying linear and nonlinear optical interactions with Photonic Crystals PCs without neglecting an important aspect related to the material research as idea and methods of realizations of 3D PC together with the development and implementation of measurement techniques for the experimental evaluation of their potential applications in different area as for example telecommunication with novel optical fibers lasers nonlinear multi functionality display devices opto electronics sensors The book contains contributions from authors who gave their lecture at the Cost P11 Training School Sonic and Photonic Crystals Lien-Wen Chen,Jia-Yi Yeh,2020-12-14 Sonic phononic crystals termed acoustic sonic band gap media are elastic analogues of photonic crystals and have also recently received renewed attention in many acoustic applications Photonic crystals have a periodic dielectric modulation with a spatial scale on the order of the optical wavelength The design and optimization of photonic crystals can be utilized in many applications by combining factors related to the combinations of intermixing materials lattice symmetry lattice constant filling factor shape of the scattering object and thickness of a structural layer Through the publications and discussions of the research on sonic phononic crystals researchers can obtain effective and valuable results and improve their future development in related fields Devices based on these crystals can be utilized in mechanical and physical applications and can also be designed for novel applications as based on the

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