

Undergraduate Lecture Notes in Physics

Vittorio Degiorgio
Ilaria Cristiani

Photonics

A Short Course

Second Edition

 Springer

Photonics A Short Course Undergraduate Lecture Notes In Physics

Vittorio Degiorgio, Ilaria Cristiani



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[A New Generation of Ultrafast Oscillators for Mid-Infrared Applications](#) Nathalie Nagl, 2022-02-01 This thesis presents the first successful realization of a compact low noise and few cycle light source in the mid infrared wavelength region By developing the technology of pumping femtosecond chromium doped II VI laser oscillators directly with the emission of broad stripe single emitter laser diodes coherent light was generated with exceptionally low amplitude noise crucial for numerous applications including spectroscopy at high sensitivities Other key parameters of the oscillator s output such as pulse duration and output power matched and even surpassed previous state of the art systems As a demonstration of its unique capabilities the oscillator s powerful output was used to drive without further amplification the nonlinear generation of coherent mid infrared light spanning multiple octaves The resulting table top system uniquely combines high brilliance and ultrabroad spectral bandwidth in the important mid infrared spectral range The rapid development of this technology is

comprehensively and lucidly documented in this PhD thesis Together with a thorough review of literature and applications and an extensive analysis of the theoretical foundations behind ultrafast laser oscillators the thesis will serve as a valuable reference for the construction of a new generation of mid infrared light sources

X-Ray Diffraction for Materials Research Myeongkyu Lee, 2017-03-16 X ray diffraction is a useful and powerful analysis technique for characterizing crystalline materials commonly employed in MSE physics and chemistry This informative new book describes the principles of X ray diffraction and its applications to materials characterization It consists of three parts The first deals with elementary crystallography and optics which is essential for understanding the theory of X ray diffraction discussed in the second section of the book Part 2 describes how the X ray diffraction can be applied for characterizing such various forms of materials as thin films single crystals and powders The third section of the book covers applications of X ray diffraction The book presents a number of examples to help readers better comprehend the subject X Ray Diffraction for Materials Research From Fundamentals to Applications also provides background knowledge of diffraction to enable nonspecialists to become familiar with the topics covers the practical applications as well as the underlying principle of X ray diffraction presents appropriate examples with answers to help readers understand the contents more easily includes thin film characterization by X ray diffraction with relevant experimental techniques presents a huge number of elaborately drawn graphics to help illustrate the content The book will help readers students and researchers in materials science physics and chemistry understand crystallography and crystal structures interference and diffraction structural analysis of bulk materials characterization of thin films and nondestructive measurement of internal stress and phase transition Diffraction is an optical phenomenon and thus can be better understood when it is explained with an optical approach which has been neglected in other books This book helps to fill that gap providing information to convey the concept of X ray diffraction and how it can be applied to the materials analysis This book will be a valuable reference book for researchers in the field and will work well as a good introductory book of X ray diffraction for students in materials science physics and chemistry

Field Mathematics for Electromagnetics, Photonics, and Materials Science Bernard Maxum, 2005 The primary objective of this book is to offer a review of vector calculus needed for the physical sciences and engineering This review includes necessary excursions into tensor analysis intended as the reader's first exposure to tensors making aspects of tensors understandable at the undergraduate level

Computational Photonics Marek S. Wartak, 2013-01-10 A comprehensive manual on the efficient modeling and analysis of photonic devices for graduate students and researchers in engineering and physics

An Introduction to Metamaterials and Nanophotonics Constantin Simovski, Sergei Tretyakov, 2020-11-26 Metamaterials have established themselves as one of the most important topics in physics and engineering and have found practical application across a wide variety of fields including photonics condensed matter physics materials science and biological and medical physics This modern and self contained text delivers a pedagogical treatment of the topic rooted within the fundamental

principles of nanophotonics A detailed and unified description of metamaterials and metasurfaces is developed beginning with photonic crystals and their underlying electromagnetic properties before introducing plasmonic effects and key metamaterial configurations Recent developments in research are also presented along with cutting edge applications in the field This advanced textbook will be invaluable to students and researchers working in the fields of optics and nanophotonics

Advanced Optical Imaging Theory Min Gu,2013-06-05 Optical microscopy and associated technologies advanced quickly after the introduction of the laser The techniques have stimulated further development of optical imaging theory including 3 dimensional microscopy imaging theory in spatial and frequency domains the theory of imaging with ultrashort pulse beams and aberration theory for high numerical aperture objectives This book introduces these new theories in terms of modern optical microscopy It consists of seven chapters including an introduction The chapters are organized to minimize cross referencing Comparisons with classical imaging theory are made when the new imaging theory is introduced The book is intended for senior undergraduate students in courses on optoelectronics optical engineering photonics biophotonics and applied physics after they have completed modern optics or a similar subject It is also a reference for other scientists interested in the field **International Conference on Education and Training in Optics and Photonics** ,2000

Photonics and Fiber Optics Tarun Kumar Gangopadhyay,Pathik Kumbhakar,Mrinal Kanti Mandal,2019-09-23 The combination of laser and optoelectronics with optical fiber technology can enhance the seamless activities of fiber optic communications and fiber sensor arena This book discusses foundations of laser technology non linear optics laser and fiber optic applications in telecommunication and sensing fields including fundamentals and recent developments in photonics technology Accumulated chapters cover constituent materials techniques of measurement of non linear optical properties of nanomaterials photonic crystals and pertinent applications in medical high voltage engineering and in optical computations and designing logic gates

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