Physics Of Photonic Devices 2nd Edition Wiley Series In

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a comprehensive and self contained introductory text covering all the fundamental concepts and major principles of photonics

in recent decades the way human beings interact with technology has been significantly transformed in our daily life ever fewer manually controlled devices are used giving way to automatized houses cars and devices a significant part of this technological revolution relies on signal detection and evaluation placing detectors as core devices for further technological developments this book introduces a versatile contribution to achieving light sensing organic semiconductor devices for light detection the text is organized to guide the reader through the main concepts of light detection followed by a introduction to the semiconducting properties of organic molecular solids the sources of non idealities in organic photodetectors are presented in chapter 5 and a new device concept which aims to overcome some of the limitation discussed in the previous chapters is demonstrated finally an overview of the field is given with a selection of open points for future investigation

this textbook provides upper undergraduate and graduate students in engineering and physics with a well rounded foundation in optics and photonics equipping them to tackle a wide range of research challenges the first part of the book introduces readers to the classical wave theory of light exploring the fundamental question what is the nature of light meanwhile the second part approaches light as a stream of photons in the first part readers learn the principles of geometrical optics essential for analyzing and designing imaging optical systems and laser resonators physical optics is covered in detail addressing key phenomena such as interference diffraction and interferometry along with a comprehensive chapter on fourier optics the discussion extends to the application of wave theory to optical waveguides which are fundamental for both discrete and integrated laser resonators forming the foundation of photonic integrated circuits the second part of the book begins with an introduction to quantum mechanical principles necessary for designing semiconductor light sources including laser diodes light emitting diodes photodetectors and light modulators it concludes with a discussion on modern photonics applications particularly optical communication systems which have played a pivotal role in enabling the internet age with a wealth of worked problems and solutions this textbook allows students to explore and engage deeply with various optical phenomena by addressing both the wave and particle nature of light presenting quantum mechanics in an accessible manner and covering a broad spectrum of crucial topics this book serves as an essential resource for courses in optics photonics and optoelectronics

the most up to date book available on the physics of photonic devices this new edition of physics of photonic devices incorporates significant advancements in the field of photonics that have occurred since publication of the first edition physics of optoelectronic devices new topics covered include a brief history of the invention of semiconductor lasers the lorentz dipole method and metal plasmas matrix optics surface plasma waveguides optical ring resonators integrated electroabsorption modulator lasers and solar cells it also introduces exciting new fields of research such as surface plasmonics and micro ring resonators the theory of optical gain

and absorption in quantum dots and quantum wires and their applications in semiconductor lasers and novel microcavity and photonic crystal lasers quantum cascade lasers and gan blue green lasers within the context of advanced semiconductor lasers physics of photonic devices second edition presents novel information that is not yet available in book form elsewhere many problem sets have been updated the answers to which are available in an all new solutions manual for instructors comprehensive timely and practical physics of photonic devices is an invaluable textbook for advanced undergraduate and graduate courses in photonics and an indispensable tool for researchers working in this rapidly growing field

this volume explores the topic of photosensitive optical materials and devices aspects addressed include wavelength shifts in uv exposed single mode fused taper fibre couplers primary photoprocesses in dichromated gelatin and ir diffractive structures

proceedings of spie present the original research papers presented at spie conferences and other high quality conferences in the broad ranging fields of optics and photonics these books provide prompt access to the latest innovations in research and technology in their respective fields proceedings of spie are among the most cited references in patent literature

fundamentals of photonics a complete thoroughly updated full color second edition now in a new full color edition fundamentals of photonics second 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 logical 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 photons and atoms and semiconductor optics presented at increasing levels of complexity preliminary sections build toward more advanced topics such as fourier optics and holography guided wave and fiber optics semiconductor sources and detectors electro optic and acousto optic devices nonlinear optical devices optical interconnects and switches and optical fiber communications each of the twenty two chapters of the first edition has been thoroughly updated the second edition also features entirely new chapters on photonic crystal optics including multilayer and periodic media waveguides holey fibers and resonators and ultrafast optics including femtosecond optical pulses ultrafast nonlinear optics and optical solitons the chapters on optical interconnects and switches and optical fiber communications have been completely rewritten to accommodate current technology each chapter contains summaries highlighted equations exercises problems and selected reading lists examples of real systems are included to emphasize the concepts governing applications of current interest

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