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designed for the non calculus physics course taken by those who are pursuing careers in science or engineering technology this text is built about the use of examples with solutions designed to develop problem solving skills

since the invention of the laser our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology as the reality of all optical systems quickly comes into focus it is more important than ever to have a thorough understanding of light and the optical components used to control it comprising chapters drawn from the author s highly anticipated book photonics principles and practices light and optics principles and practices offers a detailed and focused treatment for anyone in need of authoritative information on this critical area underlying photonics using a consistent approach the author leads you step by step through each topic each skillfully crafted chapter first explores the theoretical concepts of each topic and then demonstrates how these principles apply to real world applications by guiding you through experimental cases illuminated with numerous illustrations the book works systematically through light light and shadow thermal

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since the invention of the laser our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology as the reality of all optical systems comes into focus it is more important than ever to stay current with the latest advances in the optics and components that enable photonics technology comprising chapters drawn from the author s highly anticipated book photonics principles and practices physical optics principles and practices offers a detailed and focused treatment for anyone in need of authoritative information on this critical area underlying photonics using a consistent approach the author leads you step by step through each topic each skillfully crafted chapter first explores the theoretical concepts of each topic and then demonstrates how these principles apply to real world applications by guiding you through experimental cases illuminated with numerous illustrations the book works systematically through the principles of waves diffraction interference diffraction gratings interferometers spectrometers and several aspects of laser technology to build a thorough understanding of how to study and manipulate the behavior of light for various applications in addition it includes a four page insert containing several full color illustrations as well as a chapter on laboratory safety containing several topics presented for the first time in book form physical optics principles and practices is simply the most modern detailed and hands on text in the field

since the invention of the laser our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology an explosion of new materials devices and applications makes it more important than ever to stay current with the latest advances surveying the field from fundamental concepts to state of the art developments photonics principles and practices builds a comprehensive understanding of the theoretical and practical aspects of photonics from the basics of light waves to fiber optics and lasers providing self contained coverage and using a consistent approach the author leads you step by step through each topic each skillfully crafted chapter first explores the theoretical concepts of each topic and then demonstrates how these principles apply to real world applications by guiding you

through experimental cases illuminated with numerous illustrations coverage is divided into six broad sections systematically working through light optics waves and diffraction optical fibers fiber optics testing and laboratory safety a complete glossary useful appendices and a thorough list of references round out the presentation the text also includes a 16 page insert containing 28 full color illustrations containing several topics presented for the first time in book form photonics principles and practices is simply the most modern comprehensive and hands on text in the field

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