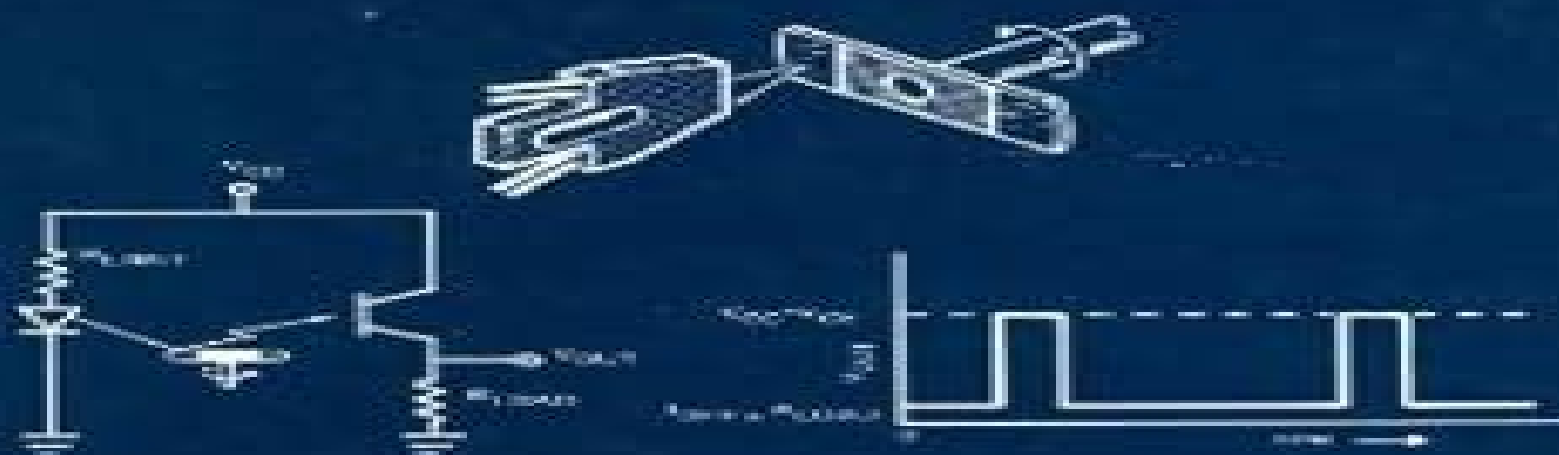


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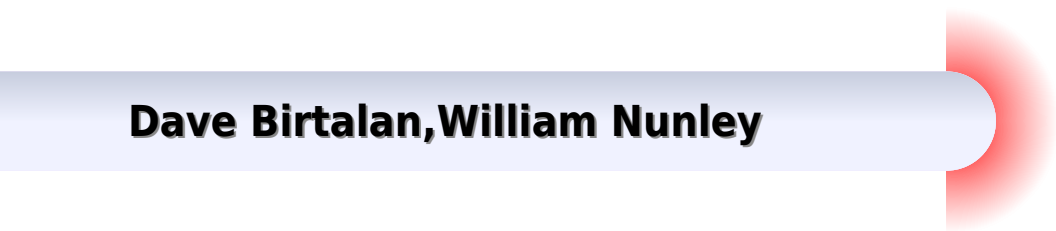


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Infrared Optoelectronics Devices And Applications

Optical Science And Engineering

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Photonic technology promises much faster computing massive parallel processing and an evolutionary step in the digital age The search continues for devices that will enable this paradigm and these devices will be based on photonic crystals Modeling is a key process in developing crystals with the desired characteristics and performance and Electromagnetic Theory and Applications for Photonic Crystals provides the electromagnetic theoretical models that can be effectively applied to modeling photonic crystals and related optical devices The book supplies eight self contained chapters that detail various analytical numerical and computational approaches to the modeling of scattering and guiding problems For each model the chapter begins with a brief introduction detailed formulations of periodic structures and photonic crystals and practical applications to photonic crystal devices Expert contributors discuss the scattering matrix method multipole theory of scattering and propagation model of layered periodic arrays for photonic crystals the multiple multipole program the mode matching method for periodic metallic structures the method of lines the finite difference frequency domain technique and the finite difference time domain technique Based on original research and application efforts Electromagnetic Theory and Applications for Photonic Crystals supplies a broad array of practical tools for analyzing and designing devices that will form the basis for a new age in computing Optical Waveguides María L. Calvo,Vasudevan Lakshminarayanan,2018-10-03

Although the theory and principles of optical waveguides have been established for more than a century the technologies have only been realized in recent decades Optical Waveguides From Theory to Applied Technologies combines the most relevant aspects of waveguide theory with the study of current detailed waveguiding technologies in particular photonic devices telecommunication applications and biomedical optics With self contained chapters written by well known specialists the book features both fundamentals and applications The first three chapters examine the theoretical foundations and bases of planar optical waveguides as well as critical optical properties such as birefringence and nonlinear optical phenomena The next several chapters focus on contemporary waveguiding technologies that include photonic devices and telecommunications The book concludes with discussions on additional technological applications including biomedical optical waveguides and the potential of neutron waveguides As optical waveguides play an increasing part in modern technology photonics will become to the 21st century what electronics were to the 20th century Offering both novel insights for experienced professionals and introductory material for novices this book facilitates a better understanding of the new information era the photonics century Physical Properties and Data of Optical Materials Moriaki Wakaki,Takehisa Shibuya,Keiei Kudo,2018-10-08

Research and applications in optical engineering require careful selection of materials With such a large and varied array to choose from it is important to understand a material s physical and optical properties before making a selection Providing a convenient concise and logically organized collection of information Physical Properties and

Data of Optical Materials builds a thorough background for more than 100 optical materials and offers quick access to precise information. Surveying the most important and widely used optical materials, this handy reference includes data on a wide variety of metals, semiconductors, dielectrics, polymers, and other commonly used optical materials. For each material, the editors examine the crystal system, natural and artificial growth, and production methods, along with corrosives and processing, thermal, electrical, and mechanical properties, optical properties such as transmittance and reflectance spectra ranging from UV to IR wavelengths, and where applicable, applications for spectroscopy and miscellaneous remarks such as handling concerns and chemical properties. Numerous tables illustrate important data such as numerical values of optical constants for important wavelength regions, extinction and absorption coefficients, and refractive index. Physical Properties and Data of Optical Materials offers a collection of data on an unprecedented variety of fundamental optical materials, making it the one quick lookup guide that every optical scientist, engineer, and student should own.

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Laser Remote Sensing Takashi Fujii, Tetsuo Fukuchi, 2005-06-28 Information on recent progress in laser remote sensor LIDAR technology can be found scattered throughout numerous journal articles and conference proceedings but until now there has been no work that summarizes recent advancements and achievements in the field in a detailed format Laser Remote Sensing provides an up to date comprehensive Polarimetric Radar Imaging Jong-Sen Lee, Eric Pottier, 2017-12-19 The recent launches of three fully polarimetric synthetic aperture radar PolSAR satellites have shown that polarimetric radar imaging can provide abundant data on the Earth's environment such as biomass and forest height estimation snow cover mapping glacier monitoring and damage assessment Written by two of the most recognized leaders in this field Polarimetric Radar Imaging From Basics to Applications presents polarimetric radar imaging and processing techniques and shows how to develop remote sensing applications using PolSAR imaging radar The book provides a substantial and balanced introduction to the basic theory and advanced concepts of polarimetric scattering mechanisms speckle statistics and speckle filtering polarimetric information analysis and extraction techniques and applications typical to radar polarimetric remote sensing It explains the importance of wave polarization theory and the speckle phenomenon in the information retrieval problem of microwave imaging and inverse scattering The authors demonstrate how to devise intelligent information extraction algorithms for remote sensing applications They also describe more advanced polarimetric analysis techniques for polarimetric target decompositions polarization orientation effects polarimetric scattering modeling speckle filtering terrain and forest classification manmade target analysis and PolSAR interferometry With sample PolSAR data sets and software available for download this self contained hands on book encourages you to analyze space borne and airborne PolSAR and polarimetric interferometric SAR Pol InSAR data and then develop applications using this data *Polymer Fiber Optics* Mark G. Kuzyk, 2018-10-03 This straightforward text examines the scientific principles characterization techniques and

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