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progress in optics volume 43

modern optics is a fundamental study of the principles of optics using a rigorous physical approach based on maxwell s equations the treatment provides the mathematical foundations needed to understand a number of applications such as laser optics fiber optics and medical imaging covered in an engineering curriculum as well as the traditional topics covered in a physics based course in optics in addition to treating the fundamentals in optical science the student is given an exposure to actual optics engineering problems such as paraxial matrix optics aberrations with experimental examples fourier transform optics fresnel kirchhoff formulation gaussian waves thin films photonic crystals surface plasmons and fiber optics through its many pictures figures and diagrams the text provides a good physical insight into the topics covered the course content can be modified to reflect the interests of the instructor as well as the student through the selection of optional material provided in appendixes

this book intended for students researchers and engineers is a collection of classic papers on photorefractive nonlinear

optics included are landmark papers on fundamental photorefractive phenomena two wave mixing four wave mixing phase conjugators and resonators material growth and physics and applications in image processing optical storage and optical computing

presents a clear systematic molecular based description of nonlinear optical polarization analysis of chemical and biological assemblies

with the emergence of nanoscience and technology in the 21st century research has shifted its focus on the quantum and optical dynamical properties of matter such as atoms molecules and solids which are properly characterized in their dynamic state quantum and optical dynamics of matter for nanotechnology carefully addresses the general key concepts in this field and expands to more complex discussions on the most recent advancements and techniques related to quantum dynamics within the confines of physical chemistry this book is an essential reference for academics researchers professionals and advanced students interested in a modern discussion of a niche area of nanotechnology

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