

Optics Essentials: An Interdisciplinary Guide

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Reviews

The ebook is simple in go through preferable to comprehend. Better then never, though i am quite late in start reading this one. Its been printed in an exceptionally simple way and it is simply right after i finished reading through this pdf in which in fact altered me, affect the way i believe. (Prof. Corbin Hill!)

OPTICS ESSENTIALS: AN INTERDISCIPLINARY GUIDE

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Taylor & Francis Inc. Hardback. Book Condition: new. BRAND NEW, Optics Essentials: An Interdisciplinary Guide, Araz Yacoubian, A Valuable Reference for Understanding Basic Optical Principals Need a crash course in optics? If you are a non-specialist with little or no knowledge of optical components, systems, or hardware, who suddenly finds it necessary to work with optics in your given field, then Optics Essentials: An Interdisciplinary Guide is the book for you. Aimed at engineers and other interdisciplinary professionals tackling optics-related challenges, this text provides a basic overview of optical principles, concepts, and applications as well as worked examples throughout. It enables readers to gain a basic understanding of optics and sense of optical phenomena, without having to commit to extended periods of study. Contains MATLAB(R) Simulations and Suggested Experiments The book provides MATLAB simulations to help the reader visualize concepts, includes simple experiments using everyday materials that are readily available to solidify optical principles, and provides worked examples throughout. It contains a set of suggested experiments in each chapter designed to help the reader understand and visualize the basic principles. While this book assumes that the reader has a basic background in mathematics, it does not burden or overwhelm them with complex information or heavy mathematical equations. In addition, while it also briefly discusses advanced topics, readers are directed to the appropriate texts for more detailed study. Comprised of 11 chapters, this illuminating text: * Describes light sources, such as lasers, light-emitting diodes, and thermal sources * Compares various light sources, and photometric and radiometric parameters * Discusses light detection, including various detector types, such as photon detectors and thermal detectors, and other topics relating to light detection * Addresses manipulation of light, and covers reflection, refraction, diffraction and interference, absorption, and scattering * Factors in polarization * Explores the...

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