

Optics 4th Edition Eugene Hecht

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a comprehensive study of the field of optics

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optics clearly explains the principles of optics using excellent pedagogy to support student learning beginning with introductory ideas and equations k k sharma takes the reader through the world of optics by detailing problems encountered advanced subjects and actual applications elegantly written this book rigorously examines optics with over 300 illustrations and several problems in each chapter the book begins with light propagation in anisotropic media considered much later in most books nearly one third of the book deals with applications of optics this simple idea of merging the sometimes overwhelming and dry subject of optics with real world applications will create better future engineers it will make optics jump off the page for readers and they will see it take shape in the world around them in presenting optics practically as well as theoretically readers will come away not only with a complete knowledge base but a context in which to place it this book is recommended for optical engineers libraries senior undergraduate students graduate students and professors strong emphasis on applications

to demonstrate the relevance of the theory includes chapter on problem solving of ray deviations focusing errors and distortion problems are included at the end of each chapter for thorough understanding of this dense subject matter

accurate authoritative and comprehensive optics fourth edition has been revised to provide students with the most up to date coverage of optics the market leader for over a decade this text provides a balance of theory and instrumentation while also including the necessary classical background the writing style is lively and accessible

building electro optical systems in the newly revised third edition of building electro optical systems making it all work renowned dr philip c d hobbs delivers a birds eye view of all the topics you ll need to understand for successful optical instrument design and construction the author draws on his own work as an applied physicist and consultant with over a decade of experience in designing and constructing electro optical systems from beginning to end the book s topics are chosen to allow readers in a variety of disciplines and fields to quickly and confidently decide whether a given device or technique is appropriate for their needs using accessible prose and intuitive organization building electro optical systems remains one of the most practical and solution oriented resources available to graduate students and professionals the newest edition includes comprehensive revisions that reflect progress in the field of electro optical instrument design and construction since the second edition was published it also offers approximately 350 illustrations for visually oriented learners readers will also enjoy a thorough introduction to basic optical calculations including wave propagation detection coherent detection and interferometers practical discussions of sources and illuminators including radiometry continuum sources incoherent line sources lasers laser noise and diode laser coherence control explorations of optical detection including photodetection in semiconductors and signal to noise ratios full treatments of lenses prisms and mirrors as well as coatings filters and surface finishes and polarization perfect for graduate students in physics electrical engineering optics and optical engineering building electro optical systems is also an ideal resource for professional designers working in optics electro optics analog electronics and photonics

in the last decade new displays have been developed at an ever increasing pace bulky cathode ray tubes have been replaced by flat panels and mobile phones tablets and navigation systems have proliferated seeing this explosion raises tantalizing questions about the future evolution of visual displays will printed displays be sold by the square

edited and expanded to keep pace with the digital revolution the new edition of this highly popular and critically acclaimed work provides a comprehensive exploration of imaging science brilliantly written and extensively illustrated the science of imaging an introduction second edition covers the fundamental laws of physics as well as the cut

the book offers a thorough introduction to machine vision it is organized in two parts the first part covers the image acquisition which is the

crucial component of most automated visual inspection systems all important methods are described in great detail and are presented with a reasoned structure the second part deals with the modeling and processing of image signals and pays particular regard to methods which are relevant for automated visual inspection

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this edition of hecht's book serves as both text and reference it provides the reader with an understanding of many concepts through historical anecdotes and citations discussions of topics include developments in fiber optics optical signal processing and fourier analysis

includes entries for maps and atlases

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

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