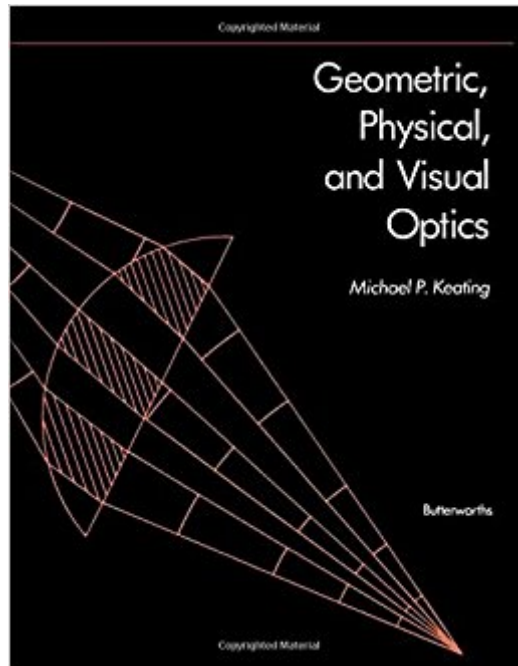




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Geometric, Physical, And Visual Optics



Synopsis

A basic optics textbook that integrates relevant visual and ophthalmic optics material with basic geometric and physical optics. Dr. Keating's book uses the vergence approach to optics as well as the wavefront approach to vergence as an aid to developing optics intuition.

Book Information

Paperback: 577 pages

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Average Customer Review: 3.9 out of 5 stars 7 customer reviews

Best Sellers Rank: #664,097 in Books (See Top 100 in Books) #74 in Books > Textbooks > Medicine & Health Sciences > Allied Health Services > Optometry #103 in Books > Medical Books > Allied Health Professions > Optometry #174 in Books > Medical Books > Medicine > Surgery > Ophthalmology

Customer Reviews

"keating provides an excellent text for the optometry student and practitioners. Very straightforward and accessible." --This text refers to the Digital edition.

Completely revised and updated, you will benefit from new and rewritten sections on: axial magnification * Jackson Cross Cylinder tests * retinoscopy reflex motions * field of view * the optics of indirect ophthalmoscopy * optical aberrations * diffractive lenses * the Doppler shift * lasers and the similarities and differences of Gaussian laser beams versus the propagation of light from a point source * plus, a new appendix on angles and basic trigonometry. Although not a matrix optics text, matrices are used extensively in the chapters on spherical systems and off-axis aspects of astigmatism. In particular, the matrix treatment of astigmatism serves as a foundation for the recently developed, much improved statistical techniques that deal with refractive corrections and astigmatism in all its aspects. --This text refers to the Digital edition.

Not the most lucid text on optics, but certainly functional. This is a dense text to try to learn from in

the absence of additional resources or background -- it was clearly meant to be used in conjunction with an instructor.

The book has all of the information you need, with hand drawn diagrams. The author goes to great pains to thoroughly explain each concept. For the price, I would have expected a professional artist, with color pages and better paper quality, but when all is said and done, the author is good at explaining the concepts.

It is well described thoroughly and easy to understand the textbook. Just like me as a novice, I wish to have it.

When learning geometric optics, one usually learns concepts and equations using ordinary algebra. In this text, linear algebra is used. It gives the reader another way to manipulate problems than typically used. Highly recommended!

Dr. Keating has done an excellent job of putting his lectures into words. There is no better way to learn optics than to attend lectures, but if you can't, the next best thing is this book. As one of Dr. Keating's students, I can say that he wrote this book for students, keeping in mind that most of us have no clue about optics. He provides tons of examples along with complete explanations. I don't know how he does it...but Dr. Keating has made optics fun for me, and all of my friends!!!!!!

The book is well written in the sense for people who want to have fundamental knowledge on optics in the sense of vision and image from human eyes. It also provides abundant information on the basics that help people from either engineering or medical background.

The Best Damn Geometric Optics Book I've ever read. And the author is a hell of a nice guy! Love, Matt H. Gene F. Mike B.

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