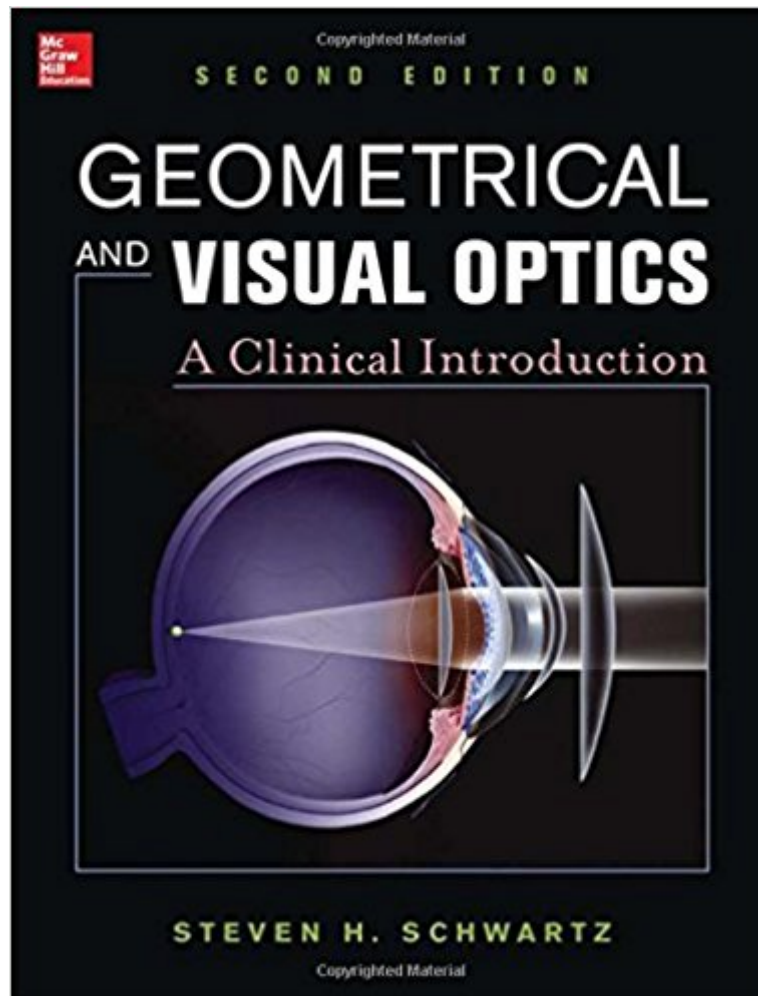




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Geometrical And Visual Optics, Second Edition



Synopsis

A COMPREHENSIVE, LEARNER-FRIENDLY INTRODUCTION TO CLINICAL OPTICS A Doody's Core Title for 2015. Geometrical and Visual Optics, Second Edition is a rigorous, yet highly accessible text that expertly combines basic optics with clinical applications in a way that brings key optometry topics to life. It emphasizes a vergence approach to geometrical and visual optics, reinforcing its fundamental utility in clinical practice. Featuring an open, workbook-style design, the book avoids unnecessary math and focuses on those optical concepts and problem-solving skills that are the cornerstones of contemporary clinical eye care. If you are an optometry student who wants to gain a complete, intuitive understanding of geometrical and visual optics, Geometrical and Visual Optics belongs on your reference shelf.

FEATURES In-depth coverage of geometrical and visual optics spans the full spectrum of topics, from refraction at spherical surfaces, to thin and thick lenses, to depth of field, ametropia, magnification, retinal image size, and reflection. Focus on the vergence approach provides a conceptual paradigm for the book and underscores its strategic application in clinical practice. Valuable chapter on basic terms and concepts reviews light sources, rays, and pencils; vergence; and refraction and Snell's law. Primary emphasis on core concepts, with a minimum of formulae and superfluous mathematics. Chapter-ending self-assessment problems of varying complexity--with worked-out answers--and two comprehensive practice examinations with answers. Exceptional pedagogy, including concept-clarifying figures and chapter summaries with key formulae.

PRAISE FOR DR. STEVEN SCHWARTZ: Like his popular book, Visual Perception: A Clinical Orientation, Dr. Schwartz offers a foundational optics text for eye care professionals in training and those seeking a concise review. Dr. Schwartz's contributions to our collective success remain unmatched. -- Jeff Rabin, Optometry and Vision Science

Book Information

Hardcover: 384 pages

Publisher: McGraw-Hill Education / Medical; 2 edition (July 9, 2013)

Language: English

ISBN-10: 0071790829

ISBN-13: 978-0071790826

Product Dimensions: 7.4 x 1 x 9.5 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars [See all reviews](#) (4 customer reviews)

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Customer Reviews

I bought this book to help with a recent thirst for knowledge related to Optometry. It covers all of the bases, but I did not enjoy the book as much as I thought that I would. I became interested in optics in 8th grade when I was deeply interested in microscopes, telescopes, cameras and lenses. Later, in High School and College, optics was covered in Physics. Finally, while building RADAR systems, a friend of mine (Tom H) and I would endlessly discuss Tom's ray-tracing software. So, I was hoping for more than an elementary introduction that was well organized and a pleasure to read. Did not happen for me. Here are a few reasons:(1) The first diagram was the electromagnetic spectrum. The moment that I saw it, I wondered if it was too late to get a refund. I have had a lot of physics, and have worked radio (HF, VHF, UHF), TV, RADAR, and lots of related technologies and I hated the diagram, but didn't quite know why. Now I know why: Go to any respectable site (e.g., Wikipedia) to see a similar diagram, and you will see a better one. Normally frequency increases when going from left to right. Normally, both frequency and wavelength are shown. In decent diagrams, color is used. In an interesting diagram, a picture of a RADAR might be included, or the visible spectrum would be portrayed in color. The electromagnetic spectrum is a breathtaking and beautiful concept, but not as presented here. So, although the information was there, it was not attractive or inspiring. If I were a student, I would hate this course, rather than enjoy the beauty of the physics.(2) There are absolutely no photos, or sophisticated drawings in the book. No links to web pages with more information. This is a boring, warmed-over 1960s-style book.

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