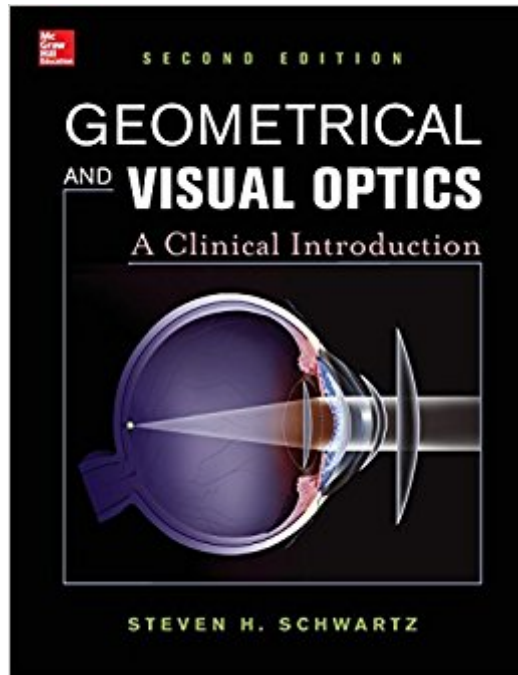




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# Geometrical And Visual Optics, Second Edition



## 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

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## Customer Reviews

Steven H. Schwartz, OD, PhD is a Professor in the Department of Biological and Vision Sciences at State University of New York, College of Optometry, where he is also Director of Institutional Research and Planning. He previously served as Vice President and Dean of Academic Affairs.

very complete reference on the science of Optics. Will take you from basic math knowledge(I would say roughly college level by today's standards) to understanding how lenses work and enough basics to know how eyeglasses are made. Well put together. I have also Visual Perception by Schwartz which is also good.

Despite hating the subject this book covers, I felt it did a great job explaining the concepts to me and breaking down optics in a way I could understand. The walk through questions helped me the most, I was able to see why and how they did certain problems. Overall I'd recommend this book as a supplement when taking an optics class.

clearly written and well explained.

Solid read for vision science as an optometry student.

Best book that I read from optics , highly recommended . So simple to read and understand , love it so much !!!

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. I always enjoyed learning about optics - until I read this book.(3) All of the diagrams are made up of black and light blue lines. Although adequate (for 1955), they are not impressive at all. A typical picture that should have been in the book is light from the sun going through a prism, showing the colors (in color).(4) I almost liked the book when it discussed forming an image with a positive lens - until there was no decent illustration, not even the "classic" tree at infinity and the upside-down tree in the focal plane. When I was very young, I would create images with a pinhole camera, and later with my Father's magnifier. What wondrous fun that was. Unfortunately, readers of this book will not have that same joy of learning. (No, I never did "pop" ants!)(5) My optometrist must have had this book in school, as she did not have an intuitive understanding of how pupil opening affects depth of field, and even hyper focal distance. I learned all of this in the most enjoyable way as a student of cameras in the late 1950s, and it comes naturally. Not here, though. Sorry, Steven: I am not a vision professional, and it is possible that "real" future vision professionals might actually enjoy this book, as the first reviewer did. So, if someone actually liked this book, they should put in a contrasting review to dilute my low rating. The good news here is that I purchased the Kindle edition, so space is not being taken up on my bookcase. Surprising that the Kindle edition resulted in a savings of less than \$5. I actually found similar material in the public domain for free, but it was not as comprehensive as this book. Finally, in the interest of being constructive, when I find a better book, I will update this review.

excellent. feel very good . jimmy love it , as description. Awesome product! Works perfectly for leveling and trimming cakes!

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