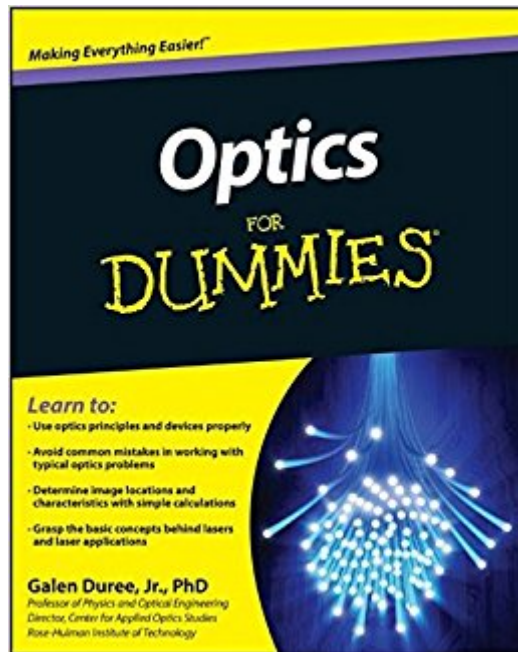




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# Optics For Dummies



## Synopsis

The easy way to shed light on Optics In general terms, optics is the science of light. More specifically, optics is a branch of physics that describes the behavior and properties of light—including visible, infrared, and ultraviolet—and the interaction of light with matter. Optics For Dummies gives you an approachable introduction to optical science, methods, and applications. You'll get plain-English explanations of the nature of light and optical effects; reflection, refraction, and diffraction; color dispersion; optical devices, industrial, medical, and military applications; as well as laser light fundamentals. Tracks a typical undergraduate optics course Detailed explanations of concepts and summaries of equations Valuable tips for study from college professors If you're taking an optics course for your major in physics or engineering, let Optics For Dummies shed light on the subject and help you succeed!

## Book Information

Paperback: 360 pages

Publisher: For Dummies; 1 edition (August 2, 2011)

Language: English

ISBN-10: 1118017234

ISBN-13: 978-1118017234

Product Dimensions: 7.3 x 1.2 x 9 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 4.1 out of 5 stars 16 customer reviews

Best Sellers Rank: #379,028 in Books (See Top 100 in Books) #108 in Books > Science & Math > Physics > Optics #2465 in Books > Textbooks > Engineering #14098 in Books > Textbooks > Science & Mathematics

## Customer Reviews

Learn to: Use optics principles and devices properly Avoid common mistakes in working with typical optics problems Determine image locations and characteristics with simple calculations Grasp the basic concepts behind lasers and laser applications An illuminating exploration of optics and optical technologies Get turned on to the study of light with this friendly guide to the world of optics.

Discover how the fundamentals of optical technologies help brighten your everyday life #151; from the common table lamp to more complex devices such as cellphones, cameras, x-ray machines, 3-D TVs, and more. With the enlightening facts presented in this book, you'll never feel left in the dark in your optics course. Optics that are high in fiber #151; get a grasp on the essentials

behind fiber-optic cables for high-speed, long-distance communications Making the world look like you want it to • learn how to calculate the location of an image and determine the image's characteristics Shed light on light • find out how light allows you to see, transmit data, cut things, and control electrical circuits Catch the waves • understand the wave property of light and how waves are used to see things you can't see with your naked eye Lasers pointing here and there • discover the basic idea behind the laser and some of its uses in medicine and the military Look far away from Earth • take a look at the different types of telescopes and what you can do with them Open the book and find: The differences among incandescent and fluorescent light bulbs and diodes Tips for knowing what you can and can't see in CAT scans, PET scans, MRI scans, NMR scans, and x-ray pictures Why you see things in 3-D The principles for testing eyesight and prescribing corrective eyeglass lenses The basic ideas involved in making a laser The behavior and properties of visible, infrared, and ultraviolet light

Galen Duree, Jr., PhD, is Professor of Physics and Optical Engineering at Rose-Hulman Institute of Technology in Indiana, where he is also the Director of the Center for Applied Optics Studies. Duree jointly established the Ultrashort Pulse Laser Laboratory at RHIT and continues to work with the Navy.

This is a thorough intro to optics if you read it all. What's lacking is a gradual approach. By page 10, you're into seriously difficult math, and only later is the background explained.

It is a great overview of the basics of light, what it is and how it behaves. I enjoyed the author's sense of humor. He is not as dry as professors tend to be.

Good

Though very simple in its outline it gives a very precise idea of all basic fields in optics science. It might be even a better reading if the main issues affecting practical applications would be discussed with more detail. I would recommend it as a complementary textbook

I like this book because it thoroughly describes the subject matter of Optics. It is for regular people who wish to understand the topic without using heavy-duty mathematics.

Easy to read and understand. Great book for someone just wanting to learn a little about optics or struggling in a beginner class.

Optics are not super complicated, but we tend to shy from too much math. Simple and clear descriptions of the basic principles!

Good book, but the equations are not easy to see on a Kindle. In fact, I needed a magnifying glass for some of them. But a nice intro to Optics.

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