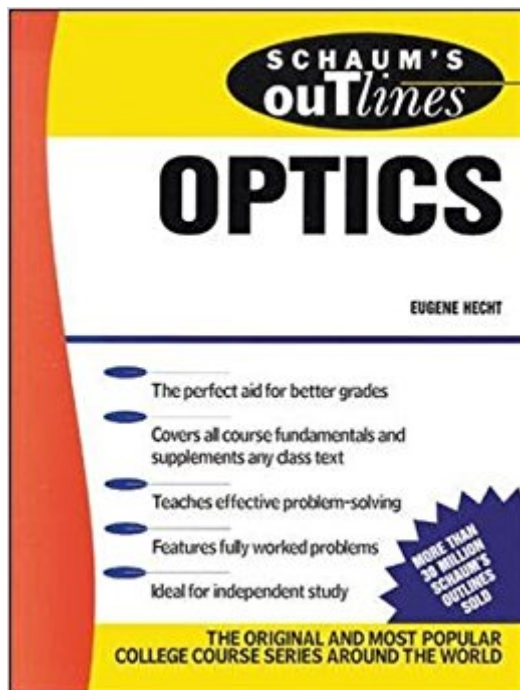


The book was found

Schaum's Outline Of Optics



Synopsis

Confusing Textbooks? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.

Book Information

Series: Schaum's Outlines

Paperback: 256 pages

Publisher: McGraw-Hill Education; 1 edition (November 22, 1974)

Language: English

ISBN-10: 0070277303

ISBN-13: 978-0070277304

Product Dimensions: 9 x 0.6 x 11 inches

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

Average Customer Review: 4.3 out of 5 stars 20 customer reviews

Best Sellers Rank: #139,123 in Books (See Top 100 in Books) #7 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Optoelectronics #35 in Books > Science & Math > Physics > Optics #505 in Books > Textbooks > Science & Mathematics > Physics

Customer Reviews

Eugene Hecht is a member of the Physics Department of Adelphi University in New York. He has authored eight books.

Pairs well with the textbook "Optics" written by the same author, though not as necessary with the 5th edition text as it was with the earlier editions due to the incorporation of example problems in the 5th edition. Organized in the same manner as all the other Schaum's manuals with a short narrative

one the background needed for the section, example problems, and supplementary problems. A great pairing with the text especially if your instructor doesn't expand on the material in class or work any example problems in class.

This book did not work for me as my professor was teaching wave optics exclusively. From what I can tell this book is good for geometrical optics.

I bought Theory and Problems of Optics to familiarize myself with beginning optics and Fourier series. I rate it high because all the problems are solved, which makes it much easier to figure out things that one doesn't understand at first. (My hobby horse --- I don't understand why mathematicians think one can't learn unless the answers are withheld.) I agree with the reviewer who found the first two chapters confusing. I think this is partly because the notation is introduced haphazardly and not well explained. I would have found a list such as the following to be helpful. Small initial letters in Greek letter names indicate lower case Greek letters. Upsilon and phi are the curly forms. k is the propagation number, $2\pi/\lambda$. λ is the wave length or spatial period. τ is the temporal period, λ / v or $1/\nu$. ν is the frequency, number of waves per unit time, usually Hz. ω is the angular frequency, $2\pi/\tau$, radians per sec. v (easily confused with ν) is the speed of propagation or phase velocity. ϕ is the phase, argument of the sine function; $\phi = kx -/+ \omega t$ ϵ is initial phase; $\phi = kx -/+ \omega t + \epsilon$ Confusion may also arise from the fact that the functions in the first two chapters contain variables for both space (x) and time (t). More explanation of why might have helped, but one can plot the functions on these variables to determine their meaning.

This is a great overview of optics, but it's Schaum, so what else would you expect?

This book presents the basic optics and equations, and then example solved problems, and exercise problems.

In short: as one would expect from Schaum. In some details: optics well separated in chapters, chapters well covered with examples and exercises of different difficultness. Excellent introductory handbook for optics.

Steak sauce.

This is a perfect supplement to the Optics book by Hecht. Taking a senior optics class at UTD and the schaums book had some really good key examples to help with HW, concepts in general. Highly recommended

[Download to continue reading...](#)

Handbook of Optics, Third Edition Volume V: Atmospheric Optics, Modulators, Fiber Optics, X-Ray and Neutron Optics Schaum's Outline of Optics (Schaum's Outlines) Schaum's Outline of Mathematics of Finance (Schaum's Outline Series) Schaum's Outline of Probability, Random Variables, and Random Processes, Second Edition (Schaum's Outline Series) Schaum's Outline of Thermodynamics With Chemical Applications (Schaum's Outline Series) Schaum's Outline of Linear Algebra Fourth Edition (Schaum's Outline Series) Schaum's Outline of Electromagnetics, Third Edition (Schaum's Outline Series) Handbook of Optics, Third Edition Volume IV: Optical Properties of Materials, Nonlinear Optics, Quantum Optics (set) Photonics Rules of Thumb: Optics, Electro-Optics, Fiber Optics and Lasers Schaum's Outline of Managerial Accounting, 2nd Edition (Schaum's Outlines) Schaum's Outline of Business Statistics, Fourth Edition (Schaum's Outlines) Schaum's Outline of Statistics and Econometrics, Second Edition (Schaum's Outlines) Schaum's Outline of Financial Management, Third Edition (Schaum's Outlines) Schaum's Outline of College Physics, 11th Edition (Schaum's Outlines) Schaum's Outline of Calculus, 6th Edition: 1,105 Solved Problems + 30 Videos (Schaum's Outlines) Schaum's Outline of Linear Algebra, 5th Edition: 612 Solved Problems + 25 Videos (Schaum's Outlines) Schaum's Outline of Mathematical Handbook of Formulas and Tables, 4th Edition: 2,400 Formulas + Tables (Schaum's Outlines) Schaum's Outline of Electric Circuits, 6th edition (Schaum's Outlines) Schaum's Outline of Electromagnetics, 4th Edition (Schaum's Outlines) Schaum's Outline of Intermediate Accounting II, 2ed (Schaum's Outlines)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)