



Photonics and Lasers: An Introduction

By Richard S. Quimby

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Photonics and Lasers: An Introduction By Richard S. Quimby

An introduction to photonics and lasers that does not rely on complex mathematics

This book evolved from a series of courses developed by the author and taught in the areas of lasers and photonics. This thoroughly classroom-tested work fills a unique need for students, instructors, and industry professionals in search of an introductory-level book that covers a wide range of topics in these areas. Comparable books tend to be aimed either too high or too low, or they cover only a portion of the topics that are needed for a comprehensive treatment.

Photonics and Lasers is divided into four parts:

- * Propagation of Light
- * Generation and Detection of Light
- * Laser Light
- * Light-Based Communication

The author has ensured that complex mathematics does not become an obstacle to understanding key physical concepts. Physical arguments and explanations are clearly set forth while, at the same time, sufficient mathematical detail is provided for a quantitative understanding. As an additional aid to readers who are learning to think symbolically, some equations are expressed in words as well as symbols.

Problem sets are provided throughout the book for readers to test their knowledge and grasp of key concepts. A solutions manual is also available for instructors. Finally, the detailed bibliography leads readers to in-depth explorations of particular topics.

The book's topics, lasers and photonics, are often treated separately in other texts; however, the author skillfully demonstrates their natural synergy. Because of the combined coverage, this text can be used for a two-semester course or a one-semester course emphasizing either lasers or photonics. This is a perfect introductory textbook for both undergraduate and graduate students, additionally serving as a practical reference for engineers in telecommunications, optics, and laser electronics.

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Editorial Review

Review

"...provides introductory-level coverage of a wide range of topics...recommended." (*CHOICE*, October 2006)

From the Back Cover

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About the Author

Richard S. Quimby is an Associate Professor of physics at Worcester Polytechnic Institute. He earned a BS in EE/Physics at Clarkson College of Technology in 1975 and a PhD in Physics at the University of Wisconsin, Madison, in 1979. He has been actively involved in research relating to photonics devices such as fiber lasers and fiber amplifiers since the 1980's. His work has resulted in approximately 35 publications, as well as three invited conference presentations. He also is a contributor to the book **FLUORIDE GLASS FIBER OPTICS** (Academic Press 1991).

Users Review

From reader reviews:

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Photonics and Lasers: An Introduction can be one of your starter books that are good idea. Many of us recommend that straight away because this guide has good vocabulary that could increase your knowledge in words, easy to understand, bit entertaining but delivering the information. The author giving his/her effort to get every word into enjoyment arrangement in writing Photonics and Lasers: An Introduction however doesn't forget the main place, giving the reader the hottest and also based confirm resource data that maybe you can be one among it. This great information could drawn you into brand-new stage of crucial contemplating.

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