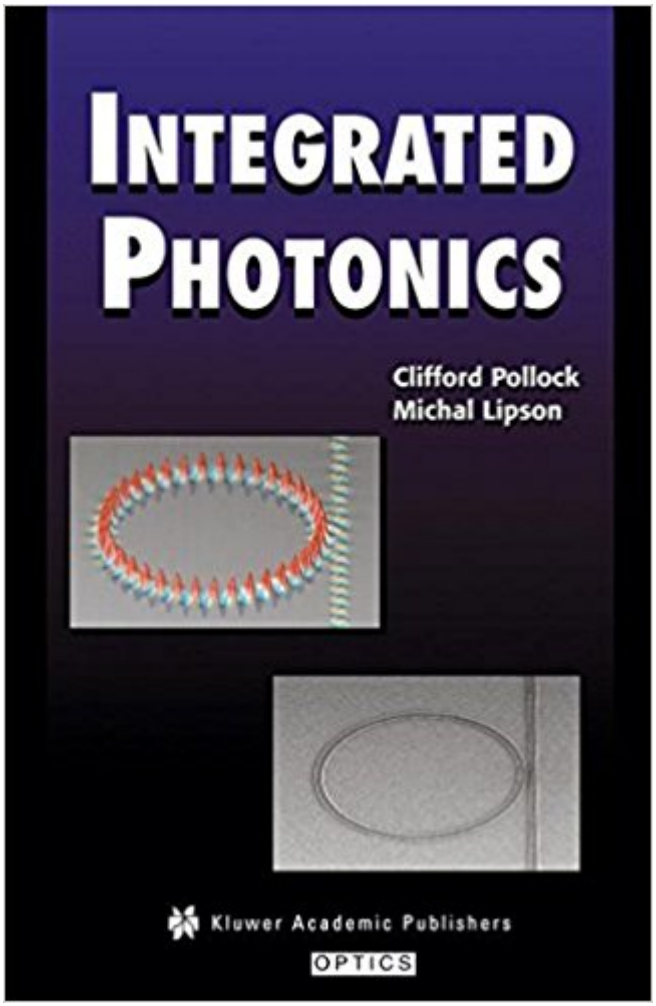
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Integrated Photonics



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Synopsis

From the beginning Integrated Photonics introduces numerical techniques for studying non-analytic structures. Most chapters have numerical problems designed for solution using a computational program such as Matlab or Mathematica. An entire chapter is devoted to one of the numeric simulation techniques being used in optoelectronic design (the Beam Propagation Method), and provides opportunity for students to explore some novel optical structures without too much effort. Small pieces of code are supplied where appropriate to get the reader started on the numeric work. Integrated Photonics is designed for the senior/first year graduate student, and requires a basic familiarity with electromagnetic waves, and the ability to solve differential equations with boundary conditions.

Book Information

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Customer Reviews

This book is, at best, a coursework book, and not suitable as a reference.I had a course that used this book, and the first day the professor apologizes to us: "This book isn’t great, but I chose this book because it’s the only book that covers all these topics." After searching for alternatives throughout the class, I have to agree. However, the book’s topic coverage is the *only* reason why I’ve rated the book with two stars instead of one.The book is plagued with errors. One cannot read through a page without finding at least one misspelled word. The errors are also not restricted to only spelling. There are equation errors, broken and erroneous figure/table/example references, missing information, inconsistent notation, and other problems. No part of this book is safe from errors--even the table of contents has spacing problems. It’s like the authors and editor did not even

glance through the manuscript draft *once* before publication.Without some sort of outside authority to point out and correct these problems, this book cannot stand on its own. I will be shelving this overpriced book, and I will seek out other texts for future reference material. It’s really too bad, because it could have been a useful general reference book.

Good lower level, upper level undergraduate photonics book. Ideal for senior year undergraduate or first year graduate studies.

Basic Photonics theory.

we learned integrated photonics, not misspellings, wrong equations, missing parameters...don’t even think of borrowing it from a library. This book is really bad.

This book doesn’t cover a lot of practical stuff. As an integrated optics book, the fabrication part and the measurement part are totally missed- what a pity! Buy Hunsperger’s "Integrated optics" and it is much much cheaper.

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