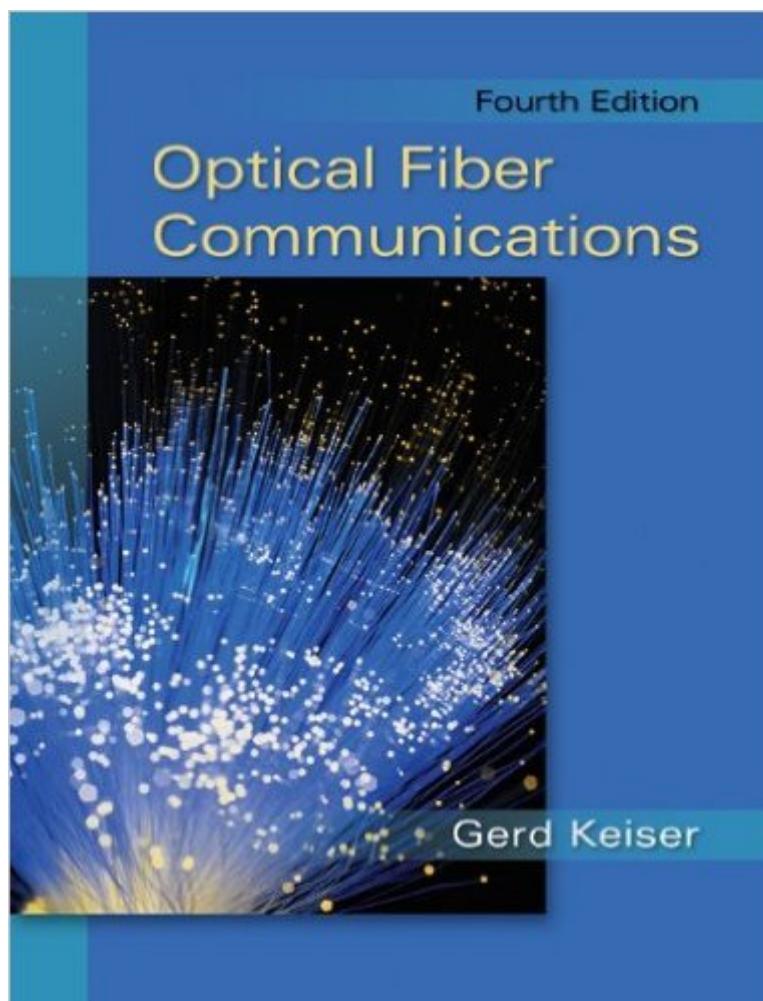


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# Optical Fiber Communications



## **Synopsis**

The fourth edition of this popular text and reference book presents the fundamental principles for understanding and applying optical fiber technology to sophisticated modern telecommunication systems. Optical-fiber-based telecommunication networks have become a major information-transmission-system, with high capacity links encircling the globe in both terrestrial and undersea installations. Numerous passive and active optical devices within these links perform complex transmission and networking functions in the optical domain, such as signal amplification, restoration, routing, and switching. Along with the need to understand the functions of these devices comes the necessity to measure both component and network performance, and to model and stimulate the complex behavior of reliable high-capacity networks.

## **Book Information**

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## **Customer Reviews**

Keiser provides an excellent introduction to the field for those entering the optical communications arena. He progresses from the fundamental bases for electromagnetic propagation in dielectric waveguides to specific practices and principles related to implementation of optical fiber in communications systems. Although the treatment of some commonplace modulation techniques in current practice is a bit light, this volume definitely helps to get one's feet wet in the discipline.

Highly recommended for students, as well as those just entering the professional arena.

This is definitely a system's level approach to optical fiber. Essentially it provides you with the

minimum motivation for modern optical fiber communication systems. It is also disjoint and relatively dry. My copy had Chapter 4 printed twice (extra paper). I'm not sure if there are better alternatives. Did anyone else notice the repetition within chapters? Pro: Great end-of-chapter references. Con: Boring, like dried leather.

I have ordered this book in hardcover, and expect to be pleased with it. However, I would have preferred to buy the Kindle edition for the usual reasons - portability and convenience. Just before committing, I noticed this note : "Read it exclusively on Kindle for PC or Kindle for Mac." Called to confirm - no kidding - you cannot read the Kindle edition of this book using your Kindle, or using the Kindle app for any device other than a PC or Mac. The rep told me that it was because the book was 'too big' for the Kindle. That's a little hard to imagine, but that's what I was told. So, Kindle owners beware. Just because it's a Kindle Edition doesn't mean you can read it on a Kindle. That must make sense in someone's universe.... Update - June 2012 - The Kindle edition of this book now works on the iPad Kindle app, and it is very good. I have updated to 4 stars, and I feel this book deserves that.

If you are thinking about picking up the International Edition to save a few dollars because you read a review that they are identical: know that they are not quite the same. In fact, the US version is superior to the International version. The main difference is that the US version has many examples in the text, whereas the International Version has none. This makes following along with class discussions a bit wonky as that changes page numbers, and even section numbers. The US edition also has extra features such as pictures of different optical connectors. In regards to Chapter Questions, the first chapter has 2 extra questions (one of which isn't answered or talked about in the chapter, if even the book): however, the values of the problems are identical, as are (as far as I can tell) the formula numbers within the text. In the end, I purchased the Kindle version of this. I highly recommend that- especially if they will allow you to read it on the Kindle app on a non-/Apple tablet (come on, : Open up the azw4 app for use on affordable tablets! Your business model is selling BOOKS and not TABLETS, right?!). But the very cool thing about the eTextbook is you can search them, which is much faster than scanning pages looking for the right concept. Assuming you know what words you are searching for, of course. The book itself is chock full of knowledge and is understandable but isn't for light reading.

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