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

Hardcover: 688 pages
Publisher: McGraw-Hill Education; 4 edition (September 10, 2010)
Language: English
ISBN-10: 0073380717
Product Dimensions: 7.5 x 1.2 x 9.4 inches
Shipping Weight: 2.7 pounds (View shipping rates and policies)
Average Customer Review: 3.2 out of 5 stars | See all reviews (8 customer reviews)
Best Sellers Rank: #528,688 in Books (See Top 100 in Books) | #47 in Books > Computers & Technology > Graphics & Design > Computer Modelling > Imaging Systems | #1052 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics | #2840 in Books > Computers & Technology > Computer Science

Customer Reviews

Keiser provides an excellent introduction to the field for those enetering 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 act, 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 one, : Open up the azw4 app for use on affordable tablets! You're 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.

Download to continue reading...

Introduction to Optical Communication, Lightwave Technology, Fiber Transmission, and Optical