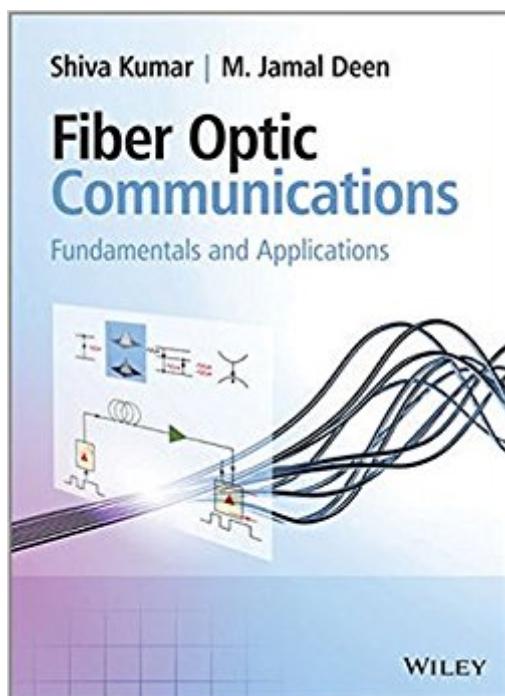


The book was found

# Fiber Optic Communications: Fundamentals And Applications



## Synopsis

Fiber-optic communication systems have advanced dramatically over the last four decades, since the era of copper cables, resulting in low-cost and high-bandwidth transmission. Fiber optics is now the backbone of the internet and long-distance telecommunication. Without it we would not enjoy the benefits of high-speed internet, or low-rate international telephone calls. This book introduces the basic concepts of fiber-optic communication in a pedagogical way. The important mathematical results are derived by first principles rather than citing research articles. In addition, physical interpretations and real-world analogies are provided to help students grasp the fundamental concepts. Key Features:

- Lucid explanation of key topics such as fibers, lasers, and photodetectors. Includes recent developments such as coherent communication and digital signal processing.
- Comprehensive treatment of fiber nonlinear transmission.
- Worked examples, exercises, and answers.
- Accompanying website with PowerPoint slides and numerical experiments in MATLAB.

Intended primarily for senior undergraduates and graduates studying fiber-optic communications, the book is also suitable as a professional resource for researchers working in the field of fiber-optic communications.

## Book Information

Hardcover: 572 pages

Publisher: Wiley; 1 edition (May 12, 2014)

Language: English

ISBN-10: 0470518677

ISBN-13: 978-0470518670

Product Dimensions: 7.7 x 1.3 x 10 inches

Shipping Weight: 2.5 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #1,442,812 in Books (See Top 100 in Books) #53 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Fiber Optics #556 in Books > Science & Math > Physics > Optics #4247 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors

## Customer Reviews

The detailed, worked examples and first-principles derivations of key results are helpful pedagogical features. Students seeking their first exposure to this field who also wish to learn about advanced topics will find their requirements met by this book. (Optics and Photonics

Fiber-optic communication systems have advanced dramatically over the last four decades, since the era of copper cables, resulting in low-cost and high-bandwidth transmission. Fiber optics is now the backbone of the internet and long-distance telecommunication. Without it we would not enjoy the benefits of high-speed internet, or low-rate international telephone calls. This book introduces the basic concepts of fiber-optic communication in a pedagogical way. The important mathematical results are derived by first principles rather than citing research articles. In addition, physical interpretations and real-world analogies are provided to help students grasp the fundamental concepts. Key Features: Å Lucid explanation of key topics such as fibers, lasers, and photodetectors. Includes recent developments such as coherent communication and digital signal processing. Comprehensive treatment of fiber nonlinear transmission. Worked examples, exercises, and answers. Accompanying website with PowerPoint slides and numerical experiments in MATLAB. Intended primarily for senior undergraduates and graduates studying fiber-optic communications, the book is also suitable as a professional resource for researchers working in the field of fiber-optic communications.

Clear explanations of topics covered and very good examples with solutions.

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

High Fiber Recipes: 101 Quick and Easy High Fiber Recipes for Breakfast, Snacks, Side Dishes, Dinner and Dessert (high fiber cookbook, high fiber diet, high fiber recipes, high fiber cooking) Fiber Optic Communications: Fundamentals and Applications Fiber Optic Communications (5th Edition) Fiber-Optic Communications Technology Fiber Optic Communications (4th Edition) Fundamentals of Electro-Optic Systems Design: Communications, Lidar, and Imaging Fiber Optic Fundamentals: Installation and Maintenance Resistant Starch: The Resistant Starch Bible: Resistant Starch - Gut Health, Fiber, Gut Balance (Gut Balance, Glycemic, Natural Antibiotics, Dietary Fiber, SIBO, Soluble Fiber, Healthy Gut Book 1) Foods High in Fiber Cookbook: List of High Fiber Foods for a Healthy Lifestyle - Recipes for High Fiber Foods Fiber Optic Test and Measurement Fiber-Optic Communication Systems (Wiley Series in Microwave and Optical Engineering) Cabling Part 2: Fiber-Optic Cabling and Components, 5th Edition Cabling: The Complete Guide to Copper and Fiber-Optic Networking The Fiber-Optic Gyroscope Professional Fiber Optic Installation: The Essentials For Success The FOA Reference Guide to Fiber Optic Network Design Fiber Optic Measurement Techniques Fiber Optic Installer's Field Manual, Second Edition The FOA Reference

# Guide To Fiber Optic Testing The FOA Reference Guide to Fiber Optic Network Design: Study Guide For FOA Certification

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)