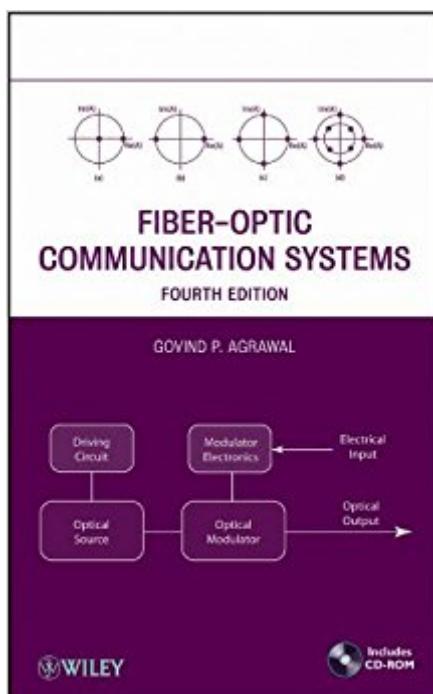


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# Fiber-Optic Communication Systems (Wiley Series In Microwave And Optical Engineering)



## **Synopsis**

This book provides a comprehensive account of fiber-optic communication systems. The 3rd edition of this book is used worldwide as a textbook in many universities. This 4th edition incorporates recent advances that have occurred, in particular two new chapters. One deals with the advanced modulation formats (such as DPSK, QPSK, and QAM) that are increasingly being used for improving spectral efficiency of WDM lightwave systems. The second chapter focuses on new techniques such as all-optical regeneration that are under development and likely to be used in future communication systems. All other chapters are updated, as well.

## **Book Information**

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## **Customer Reviews**

This is a very useful text and reference book for electrical engineers and others who are interested. Its definitely meant for the graduate students and trained engineers and not for the beginners. I used this book as a graduate text and am immensely benefitted as I often require to revise many issues regarding my research. Provides many useful comparisons and references.

The best book I know of for understanding real optical communications. It's perfect for that. We didn't use this as a textbook in grad school, and I really wish we had. This is the book that contains the right material.

I used this book for a fiber optics course learning the material for the first time, and this book is horrible to work with. As many have said, this book is a REFERENCE to the fiber optic material. It should NEVER be used for learning the material for the first time.

... but a really bad book to learn from. The book is not written for students; it's more like a collection of facts pasted together. On the plus side, the material is logically organized, and this makes it very easy to find what you're looking for. (Which, again, is what makes this a very good reference book). And, the book is complete: everything you need to know is there - semicond. optical amplifiers, optical receivers and transmitters, optical solitons; the whole nine yards. But if you want a learning book, look elsewhere. From the back cover: "Students and researchers alike will benefit from extensive pedagogical aids including: (1) extensive reference lists for each chapter, (2) survey of recent research material for each chapter, (3) relevant end-of-chapter practice problems ..., (4) solutions manual available to teachers on request, (5) system design software on the enclosed CD-ROM." Now, would you call these pedagogical aids? With the exception of the end-of-chapter problems and the CD, these are primarily aids for the researcher. What's really funny is that he calls the "solutions manual" a pedagogical aid, when it's not even available to students. In short: this book is not written for first-timers in mind; it's more of a reference book for those who have already seen the material or if you've already had an introductory course.

Very helpful books for anyone with fundamentals in EE but no fiber-optic group. So far I have read only three chapters. Each one starts from the basics and goes to sufficient depths that one can follow the current literature soon after. I would have given it a five-star. I reserve that once I read the entire book.

This book is quite good book for professional and graduate students. However, might not be suitable for undergraduate students, as it is written in an encyclopedic manner.

Agrawal is very well regarded in the field and in general the book is solid. I am using this book for a

graduate level Optical Networks class. The major issue is that there are a lot of errors in the book, especially in the problems.

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