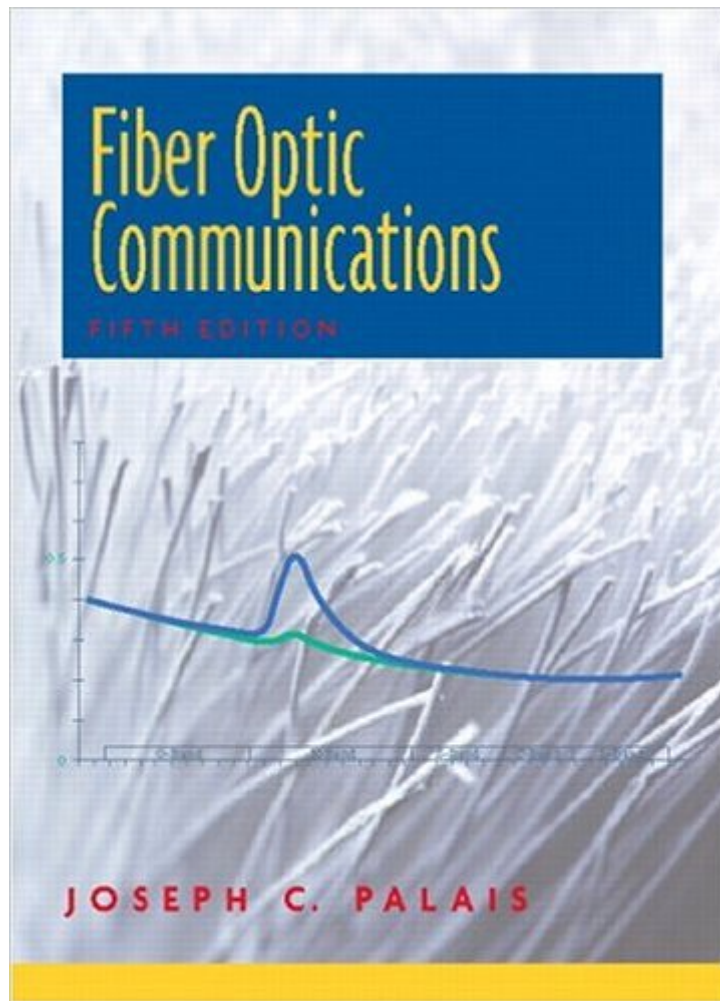


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# Fiber Optic Communications (5th Edition)



## Synopsis

This new and fully revised Fifth Edition of Fiber Optic Communications incorporates coverage of significant advances made in the fiber industry in recent years to present a comprehensive and in-depth introduction to the basics of communicating with optical fiber transmission lines. Readers will learn system design as well as operating principles, characteristics, and application of the components that comprise fiber-optic systems. New and expanded topics include Raman amplifier, erbium-doped waveguide amplifier, the arrayed waveguide grating, electroabsorption modulator, optical micro-electro-mechanical (MEMs) components, dispersion compensation, tunable light sources, tunable filters, optical time-division multiplexing, dense and coarse wavelength-division multiplexing, increased utilization of the optical spectrum, and emphasis on external modulation. Other topics include fiber lasers and optical amplifiers, vertical-cavity surface-emitting laser diodes, dense wavelength-division multiplexing, fiber Bragg grating technology, new component descriptions (fiber attenuator, circulator, and polarization controller), new phenomena descriptions (polarization mode dispersion, mode-partition noise), and power penalty. Expanded discussions of additional topics include polarization effects in fiber systems, integrated optic components, practical fiber connectors and how to minimize reflections. For practicing design engineers concerned with the selection and application of components and with the design of applications systems. For professionals involved with fiber optics, including high-level engineering decision makers, project managers, technicians, marketing and sales personnel, and teachers.

## Book Information

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## Customer Reviews

This is a good book for an introductory course in fiber optics for a B.S.E.E. program. But if you are looking for an in depth description of fiber optics communication, then you should check out "Fiber Optic Communications" by John Senior, published by Prentice-Hall. And for an introduction to the fiber optics theory without mathematical discussion, "Fiber Optic Communication: An applied approach" by A. Khan, published by Pearson Custom Publishing, is also a good introductory book for students in the telecommunications area.

I was looking for a book on fiber optic technology that had a lot of practical info and wasn't too technology in the "text book" sense. This book fit the bill, it covers the technology without boring the hell out you with derivations of equations and semiconductor physics. I would recommend this book.

This book is very suitable for those who have never seen the subject. It avoids cumbersome mathematics always when it is possible and when there is no way out, it presents in a very comprehensive way. Perfect for undergraduates.

This is a very thorough book, it has a large number of examples, problems, and tables with everything you might need. It is logically structured and well written. However, it completely skimps on the math. Almost no derivations are shown in any of the chapters, formulas are just pulled out of nowhere. Overall, it's a pretty good book. But if you're interested in knowing where things come from, buy something else. I'd recommend it for the not-so-mathematically inclined electrical engineering junior/senior.

This book is a very good introduction to this subject for engineering and science students. It covers the principles in a very clear way and it gives you also a good overview over the practical implementation of fiber optic networks and systems in real life.

If you are looking for a theoretical book concerning basic understanding of fiber optics and fiber optic communication, this is a good book for you. This book contains basic mathematics and physics concepts of the fiber optics. I think this book is suitable for researchers and anybody who is interested in the fiber optics from physics point of view. But if you are looking for a basic

understanding non-mathematical of fiber optics and fiber optic communication, this is definitely not a good book for you. I could say that this book is for graduate students only (toward their master or doctoral degree) with already quite strong understanding of theoretical light physics. If you are students with little or no understanding of such theory, I suggest that you look for other books. This book covers a quite complete of basic understanding of fiber optics and fiber optic communications. Although this book is a good introduction toward mathematics and physics concepts, it does not cover the basic understanding deep enough. I could say that there are a lot of essential understanding were left unexplained. Like I said before that this book is perfect for somebody that has already quite strong understanding of theoretical light physics.

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