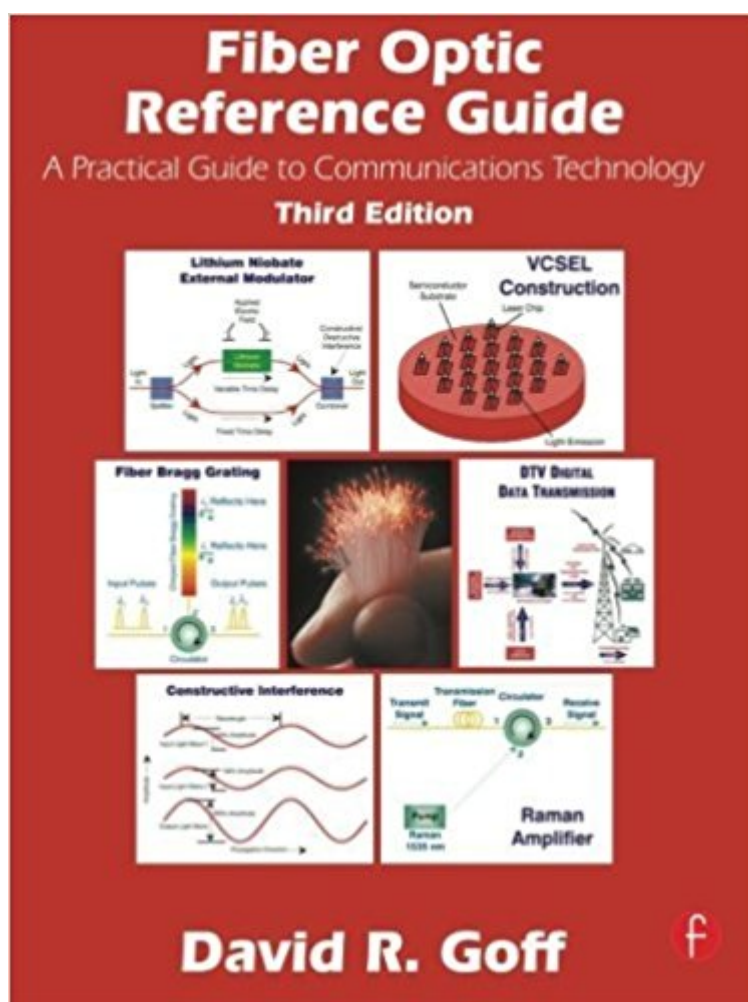


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# Fiber Optic Reference Guide



## Synopsis

The Fiber Optic Reference Guide offers readers a solid understanding of the principles of fiber optic technology, especially as it relates to telecommunications, from its early days to developing future trends. Using a minimum of jargon and a wealth of illustrations, this book provides the underlying principles of fiber optics as well as essential practical applications. The third edition is updated to include expanded sections on light emitters, semiconductor optical amplifiers, Bragg gratings, and more systems design considerations. Fiber optics plays a key role in communications, as well as in broadcast and cable systems. Engineers working with fiber optics as well as newcomers to the industry will find the third edition of this reference guide invaluable. It will help the reader develop a solid understanding of the underlying principles of this rapidly changing technology as well as its essential practical applications. The text is thoroughly indexed and illustrated.

## Book Information

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## Customer Reviews

I purchased this book, "Introduction to Fiber Optics" by Crisp and "Understanding Fiber Optics" by Hecht to get up to speed on the technology. I work in finance, and am not an engineer. I found this book to be the most clear of the three, and by far the easiest to understand. This book had better diagrams and used better analogies to explain the technology than did the other two books. The book was laid out logically, and did a good job of building on knowledge explained in previous chapters. There were one page summaries at the tale of each chapter, which were helpful in allowing you to either skip or skim the text. The glossary at the end of the book was especially

useful, as was the end chapter on future trends within the industry. The book was a quick read, and once I had finished it I felt comfortable engaging in a discussion with people much more accomplished in the field than myself.

I highly recommend this book if you are just learning about fiber optic principles and theory, or have gaps in knowledge that need to be filled. This book has very good explanations, illustrations, and diagrams. This is written to the technician audience and hands-on field engineer, but is also a good reference that even a EE engineer will find useful & handy. I found this book invaluable when I had to teach others in the subject matter.

I bought this book based on the glowing recommendations here (and elsewhere), and have just started reading it. But right out of the gate, near the bottom of page 1, it refers to a "photophone" developed by Alexander Graham Bell - then at the top of page 2 it refers to "Edison's photophone". Is that a typo, or did I miss something? Also noticed a couple of other minor typos while skimming through it. Not off to a great start here, sure hope the rest of the book is better-edited.

This book is an excellent resource for getting up to speed on fiber optics quickly. It does a good job at explaining the basics of fiber cables, lasers, modulators, receivers. If you know nothing about fiber optics, you can read this in a weekend and get an overview of most of the field. This book doesn't go into the mathematics or physics much. If that is what you are looking for, then the book isn't what you want. I highly recommend this book.

This is an excellent overview covering a wide range of fiber optic system-related topics. It is particularly useful for the working engineer, because it covers the basic information succinctly and without complex mathematical analyses. End-of-chapter references point the reader to sources of more detailed information. From the basics of optical waveguides, the operation of passive and active devices, and system design considerations - this guide provides an excellent 'first step' on the path to clear understanding.

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