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# Fiber To The Home: The New Empowerment



## Synopsis

A compelling treatment of FTTH. Written by telecommunications pioneer Paul Green Jr., *Fiber to the Home* is a comprehensive examination of the technical and social implications of fiber to the home (FTTH), the technology that extends the current fiber optic backbone to optically connect it directly to homes and offices. *Fiber to the Home* addresses the payoffs expected from this impending technological revolution; provides a detailed guide to the optoelectronic components and architectures of which the system is made; and includes an equally thorough guide to the mechanics of deploying the fiber paths, whether underground or elevated. Additionally, the book concludes with a recent country-by-country survey of the legalities and the state of play in this important new trend. Green points out how completing the "last mile" between today's fiber network backbone and customer premises will not only unleash new usage modes for consumer computers, TVs, phones, and other terminal types, but will also empower both the computer and telecommunication industries toward new levels of investment and profitability. Aimed at a general audience, *Fiber to the Home* uses essentially no mathematics, and all terms are carefully explained and reinforced with a vocabulary quiz at the end of each chapter. Because of the tutorial emphasis of the explanations, the wide spectrum of readers affected by this emerging and ever-accelerating revolution will gain a thorough understanding of the technical details of FTTH that will aid them in the practice of their professions. These readers include:

- \* Technicians, craftsmen, and engineers involved in installing fiber systems
- \* Telecommunication network planners
- \* Venture investors curious about the future of this dynamic industry sector
- \* Research and product engineers who need to know the detailed architecture, cost, and performance imperatives of this "post-bubble" optical networking business opportunity
- \* Students interested in a vibrant new industry with new jobs and new R & D challenges
- \* Telecommunication regulators and attorneys who need a quick fix on what the technology is and what it does
- \* Individuals concerned with international competitiveness in an age when the country's information infrastructure is such a key ingredient for future growth

With *Fiber to the Home*, readers are armed with all they need to fully understand and participate in the FTTH revolution.

## Book Information

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## Customer Reviews

This book discusses the current state of Fiber-to-the-Home. It discusses societal impacts, cost issues, protocol architectures, underlying technologies, and deployment. The book does a good job of discussing all of these aspects of FTTH, except for the underlying technologies. The author attempts to provide more than a rough overview of the underlying technologies (i.e., lasers, photodiodes, splitters/couplers, etc.). Unfortunately, it is best to either give a high level description of these components or delve deeply into the physics of the devices. In my opinion, there is no appropriate middle ground. A note on the writing in the book. The language in quite a few instances is a little awkward. The book is also full of typographic errors. My overall comment would be that this book provides valuable insight into the state of FTTH as of 2005.

The book ports to provide insight into the FTTH technologies and tries to address things at a very high level, however due to the technical inaccuracies in this book it is a very bad choice for people who wants to understand FTTH and some of its underlying technologies. Just as other reviews stated, the book is unfortunately riddled with typographical and grammatical errors (shame on the Editor at Wiley Publishers), which when combined with the technical flaws makes this book a very poor choice.

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