



## Digital and Analog Fiber Optic Communications for CATV and FTTx Applications (SPIE Press Monograph Vol. PM174) (Press Monograph)

*By Avigdor Brillant*

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**Digital and Analog Fiber Optic Communications for CATV and FTTx Applications (SPIE Press Monograph Vol. PM174) (Press Monograph)** By Avigdor Brillant

This book is intended to provide a step-by-step guide to all design aspects and tradeoffs from theory to application for fiber-optics transceiver electronics. Presenting a compendium of information in a structured way, this book enables the engineer to develop a methodical design approach, a deep understanding of specifications parameters and the reasons behind them, as well as their effects and consequences on system performance, which are essential for proper component design. Further, a fundamental understanding of RF, digital circuit design, and linear and nonlinear phenomena is important in order to achieve the desired performance levels. Becoming familiar with solid-state devices and passives used to build optical receivers and transmitters is also important so one can effectively overcome design limitations.

The book is organized into six main sections covering the following subjects: a top level overview; optics, semiconductors, and passives; RF concepts; an introduction to CATV modems and transmitters; digital transceivers' performance, evaluation, and concepts; and integration and testing. Copublished with Wiley Interscience.

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## **Editorial Review**

From the Back Cover

The digital age has driven the need to combine radio-frequency engineering experience with overall high-speed digital design, as well as the need for an overall understanding of system performance. In some advanced designs, both analog and digital disciplines have to exist and operate in the same space, and with the correct design, high performance is possible.

This book is intended to provide a step-by-step guide to all aspects and tradeoffs from theory to application for fiber-optics transceiver electronics. Presenting a thorough compendium of information in a structured way, this book enables the engineer to develop a methodical design approach, a deep understanding of specifications parameters and the reasons behind them, as well as their effects and consequences on system performance, which are essential for proper component design. Further, a fundamental understanding of RF, digital circuit design, and linear and nonlinear phenomena is important in order to achieve the desired performance levels. Becoming familiar with solid-state devices and passives used to build optical receivers and transmitters is also important so one can effectively overcome design limitations.

The book is organized into six main sections covering the following subjects:

- System Overview
- Semiconductors and Passives
- RF and Control Concepts
- Introduction to CATV MODEM and Transmitters
- Digital Transceiver Performance
- Integration and Testing

## **Users Review**

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**Brian Mejia:**

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**Mark Gibson:**

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**Robert Caldwell:**

Spent a free the perfect time to be fun activity to try and do! A lot of people spent their leisure time with their family, or all their friends. Usually they accomplishing activity like watching television, going to beach, or picnic inside the park. They actually doing same every week. Do you feel it? Will you something different to fill your free time/ holiday? May be reading a book is usually option to fill your totally free time/ holiday. The first thing you will ask may be what kinds of e-book that you should read. If you want to attempt look for book, may be the reserve untitled Digital and Analog Fiber Optic Communications for CATV and FTTx Applications (SPIE Press Monograph Vol. PM174) (Press Monograph) can be great book to read. May be it might be best activity to you.

**Paul Steinbach:**

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