



Fiber Optics Engineering (Optical Networks)

By Mohammad Azadeh

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Within the past few decades, information technologies have been evolving at a tremendous rate, causing profound changes to our world and our ways of life. In particular, fiber optics has been playing an increasingly crucial role within the telecommunication revolution. Not only most long-distance links are fiber based, but optical fibers are increasingly approaching the individual end users, providing wide bandwidth links to support all kinds of data-intensive applications such as video, voice, and data services. As an engineering discipline, fiber optics is both fascinating and challenging. Fiber optics is an area that incorporates elements from a wide range of technologies including optics, microelectronics, quantum electronics, semiconductors, and networking. As a result of rapid changes in almost all of these areas, fiber optics is a fast evolving field. Therefore, the need for up-to-date texts that address this growing field from an interdisciplinary perspective persists. This book presents an overview of fiber optics from a practical, engineering perspective. Therefore, in addition to topics such as lasers, detectors, and optical fibers, several topics related to electronic circuits that generate, detect, and process the optical signals are covered. In other words, this book attempts to present fiber optics not so much in terms of a field of “optics” but more from the perspective of an engineering field within “optoelectronics.”

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Editorial Review

Review

From the reviews: “This work by Azadeh ... is a useful overview of the main aspects of fiber optic communication technology. The book consists of 12 chapters that can be grouped into three sections. ... Chapters contain references for further reading Common acronyms are listed in an appendix. Summing Up: Recommended. Upper-division undergraduates and practitioners.” (O. Eknayan, Choice, Vol. 47 (7), March, 2010)

From the Back Cover

Fiber Optics Engineering discusses the theoretical and practical backgrounds of fiber optics while including insights that are usually gained with experience. The author provides an introduction to the area of fiber optics engineering. The text is straightforward, and complex mathematical equations are kept to a minimum.

Fundamental ideas are discussed in the first few introductory chapters. These include concepts such as the nature of light, foundations of fiber optics, analysis of electrical and optical signals and telecommunication networks. The critical blocks in a fiber optic system, diode lasers, optical fibers, photodetectors, and passive components, each have a dedicated chapter. The text examines optical transceivers from an electronics and circuit perspective. Emphasis is placed on circuit design and signal integrity, as related to optical transmission and reception. Included also are chapters on test and measurement, reliability, and standards.

Fiber Optics Engineering provides a valuable reference point both for those who want to become familiar with fiber optics as a fast evolving technology and for engineers who want to apply the material in an industrial design environment.

Users Review

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