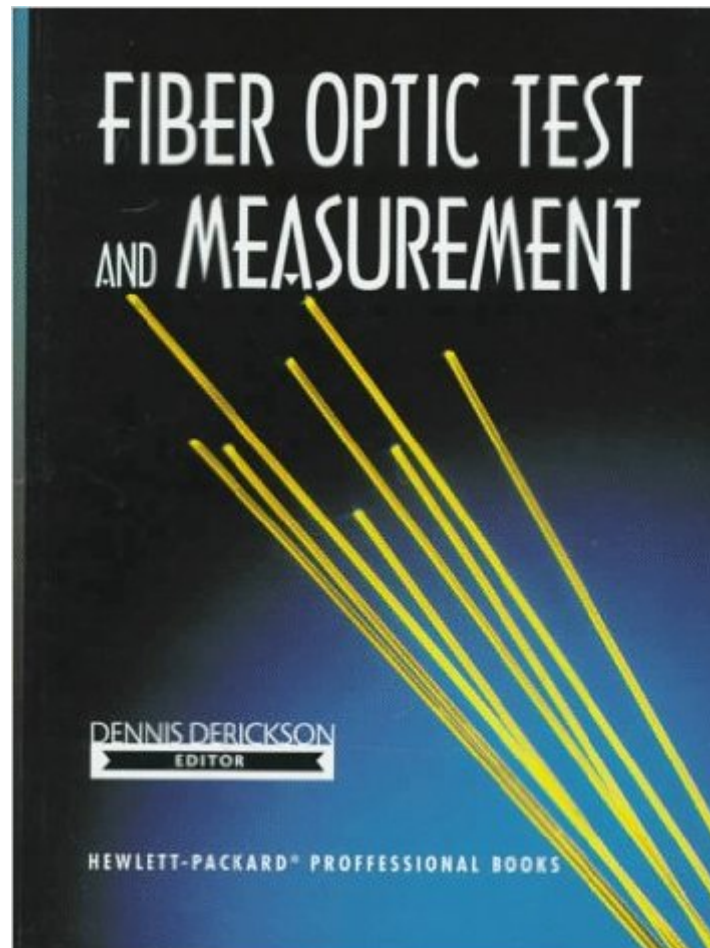


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# Fiber Optic Test And Measurement



## Synopsis

This is the most authoritative, complete source of test and measurement information for engineers who design and maintain fiber optic networks. This book presents measurement principles for characterizing all three basic components of a fiber optic communication system: the optical transmitter, fiber medium and optical receiver. It also covers system level measurements, and discusses the principles and limitations of current fiber optic testing equipment. It discusses testing to SONET/SDH international standards, and helps engineers choose the best approach to testing today's new erbium doped fiber amplifiers. The book provides detailed recommendations for understanding polarization states, and presents new methods for accurately characterizing the behavior of Wavelength Division Multiplexing (WDM) fiber systems. It includes detailed coverage of testing fiber in the local loop, using optical power meters and optical time domain reflectometers. It also reviews the latest state-of-the-art 10 Gb/s systems, and even faster systems on the horizon. The coverage is practical, helping professionals accurately measure and test fiber optic systems without becoming experts in theory. All fiber optic engineers working with communications applications.

## Book Information

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## Customer Reviews

This is probably the most complete, accurate, and authoritative book I've seen that is devoted specifically to the science of testing fiber-optic systems and components. The book begins by reviewing basic fiber-optic communications systems. It summarizes basic ideas in communications

theory, characteristics of optical fiber, optical amplifiers, optical repeaters, O/E converters, and wavelength-division multiplexing. The first chapter also contains some useful background information about bit-error rates and waveform analysis. There are simple descriptions of multimode fiber, and basic explanations of things like numerical aperture, chromatic dispersion, and polarization characteristics of optical fiber. There is also some review material on active components such as Fabry-Perot lasers, distributed-feedback lasers, vertical cavity surface-emitting lasers, electrooptic modulators, and LEDs. The first chapter ends with a review of time and frequency measurements in photonic networks. The material in the first chapter is pretty broad, and some of it is rather shallow. It's not really a good place to go for a primer on photonic networks, but the first chapter does help the reader review key concepts and ideas that are important in the book's later developments. With the review completed, the book launches into detailed discussions about different types of measurements made in fiber-optic networks and on fiber-optic components. Generally, each chapter deals with a separate topic, and is written by a different author. Chapter two discusses the nuances of making optical power measurements.

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