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this book offers comprehensive state of the art information about time domain fiber optic testing readers will gain an understanding of how to troubleshoot optical fiber networks using an optical time domain reflectometer otdr while learning the fundamental principles underlying the operation of these powerful testing instruments from basic fiber optics and fiber testing to detailed event analysis techniques this book covers the entire spectrum of time domain optical cable test theory and applications only book available focusing solely on otdr theory and practice covers the entire spectrum of time domain optical cable test theory and applications designed to be accessible to both engineers and system technicians includes otdr training cd

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

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