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Palais, Joseph C.

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Fiber-Optic Communications Pierre Lecoy, 2013-03-01 This book describes in a comprehensive manner the components and systems of fiber optic communications and networks The first section explains the theory of multimode and single mode fibers then the technological features including manufacturing cabling and connecting The second section describes the various components passive and active optical components integrated optics opto electronic transmitters and receivers and optical amplifiers used in fiber optic systems Finally the optical transmission system design is explained and applications to optical networks and fiber optic sensors are detailed including the most recent developments in switched networks high bit rate systems and FTTH or radio over fiber **Fiber Optic Communications** Joseph C. Palais,1984-01-01 Discusses the basic concepts of optics and explains the use of fiber optics in the development of communications systems

James C. Daly, 2018-02-06 Experts in the field present the theoretical and practical knowledge necessary for understanding and designing fiber optic communication systems This book bridges the gap between classical communication practice and the new techniques required to design fiber optic communication systems Engineering rules for designing systems are also given and supported by theoretical treatments Fiber-Optics Communications Technology Mynbaev, Communications Technology Djafar K. Mynbaev, Lowell L. Scheiner, 2001 A useful source of information to anyone who works with fiber optics this state of the art guide covers the newest technological innovations in fibers systems and networks and provides a solid foundation in the basics with lots of examples practical applications graphical presentations and solutions to problems that simulate those found in the workplace Devotes complete chapters to optical fibers singlemode fibers light sources and transmitters photodetectors and receivers and more Provides real data and specification sheets to help users hone their ability to read data sheets and integrate concepts a critical skill for practicing engineers Offers a two level discussion in each chapter a Basics section introduces the main ideas and principles involved in the devices covered and A Deeper Look section offers a more theoretical and detailed discussion of the same material Describes the test measurement and troubleshooting of fiber optics communications systems based on existing standards and commercially available equipment Integrates many pictures of commercially available devices and equipment throughout For professionals in the electronic technology industry Fibre Optic Communication Herbert Venghaus, Norbert Grote, 2012-08-29 The book gives an in depth description of the key devices of current and next generation fibre optic communication networks In particular the book covers devices such as semiconductor lasers optical amplifiers modulators wavelength filters and detectors but the relevant properties of optical fibres as well The presentations include the physical principles underlying the various devices the technologies used for the realization of the different devices typical performance characteristics and limitations and development trends towards more advanced components are also illustrated Thus the scope of the book spans relevant principles state of the art implementations the status of current research and expected future components

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