

Pof Handbook Optical Short Range Transmission Systems

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Society of America Federico Tosco Michael Bass

written by some of the best known pof experts from germany one of the leading countries in pof technology this is the most comprehensive introduction and survey of pof data communication systems currently available half a decade after it was first published this second edition has been completely revised and updated it has doubled in size it features recent experimental results and more than 1000 figures 600 references and numerous tables complete the text

this book presents high performance data transmission over plastic optical fibers pof using integrated optical receivers having good properties with multilevel modulation i e a higher sensitivity and higher data rate transmission over a longer plastic optical fiber length integrated optical receivers and transmitters with high linearity are introduced for multilevel communication for binary high data rate transmission over plastic optical fibers an innovative receiver containing an equalizer is described leading also to a high performance of a plastic optical fiber link the cheap standard pmma si pof step index plastic optical fiber has the lowest bandwidth and the highest attenuation among multimode fibers this small bandwidth limits the maximum data rate which can be transmitted through plastic optical fibers to overcome the problem of the plastic optical fibers high transmission loss very sensitive receivers must be used to increase the transmitted length over pof the plastic optical fiber limited bandwidth problem can be decreased by using multilevel signaling like multilevel pulse amplitude modulation or by using an equalizer for binary data transmission

this book describes the newest implementations of integrated photodiodes fabricated in nanometer standard cmos technologies it also includes the required fundamentals the state of the art and the design of high performance laser drivers transimpedance amplifiers equalizers and limiting amplifiers fabricated in nanometer cmos technologies this book shows the newest results for the performance of integrated optical receivers laser drivers modulator drivers and optical sensors in nanometer standard cmos technologies nanometer cmos technologies rapidly advanced enabling the implementation of integrated optical receivers for high data rates of several giga bits per second and of high pixel count optical imagers and sensors in particular low cost silicon cmos optoelectronic integrated circuits became very attractive because they can be extensively applied to short distance optical communications such as local area network chip to chip and board to board interconnects as well as to imaging and medical sensors

this first book to cover the interaction of polymers with radiation from the entire electromagnetic spectrum adopts a multidisciplinary approach to bridge polymer chemistry and physics photochemistry photophysics and materials science the text is equally unique in its scope devoting equal amounts of attention to the three aspects of synthesis characterization and applications the first part deals with the interaction of polymers with non ionizing radiation in the frequency range from sub terahertz via infrared radiation to visible and ultraviolet light while the second covers interaction with ionizing radiation from the extreme ultraviolet to ray photons the result is a systematic overview of how both types of radiation can be used for different polymerization approaches spectroscopy methods and lithography techniques authored by a world renowned researcher and teacher with over 40 years of experience in the field this is a highly practical and authoritative guide

optoelectronics devices and applications is the second part of an edited anthology on the multifaced areas of optoelectronics by a selected group of authors including promising novices to experts in the field photonics and optoelectronics are making an impact multiple times as the semiconductor revolution made on the quality of our life in telecommunication entertainment devices computational techniques clean energy harvesting medical instrumentation materials and device characterization and scores of other areas of r

in this book optical wavelength division multiplexing wdm is approached from a strictly practical and application oriented point of view based on the characteristics and constraints of modern fiber optic components transport systems and fibers the text provides relevant rules of thumb and practical hints for technology selection wdm system and link dimensioning and also for network related aspects such as wavelength assignment and resilience mechanisms actual 10 40 gb s wdm systems are considered and a preview of the upcoming 100 gb s systems and technologies for even higher bit rates is given as well key features considers wdm from ulh backbone big picture view down to pon access micro view includes all major telecom and datacom applications provides the relevant background for state of the art and next gen systems offers practical guidelines for system link engineering

this is a self contained book on the foundations and applications of optical and microwave technologies to telecommunication networks application with an emphasis on access local road cars trains vessels and airplanes indoor and in car data transmission as

well as for long distance fiber systems and application in outer space and automation technology the book provides a systematic discussion of physics optics electromagnetic wave theory optical fibre technology and the potential and limitations of optical and microwave transmission

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