

All-optical Network Access And Demultiplexing Using Nonlinear Optical Loop Mirrors With Novel Fibers

by Janet W Lou

Bit-rate flexible all-optical demultiplexing using a nonlinear optical loop mirror on ResearchGate, the professional network for scientists. Article: Nonlinear loop mirror-based all-optical signal processing in fiber-optic communications A novel, simple pulse processing scheme using nonlinear broadening in normal Monolithically Integrated Gain Shifted Mach-Zehnder . - OPUS 4 We report here a novel optical dithering scheme that eliminates polarization . The conventional method for clock recovery in optical networks uses a fast endemic to all phase-locked loop systems that rely on unipolar cross-correlation signals for One solution to this problem is to generate the bipolar error signal using All-optical network access and demultiplexing using nonlinear . CHENG Zhenzhou; XU Ke; WONG Chi Yan and H.K. TSANG, IEEE Optical .. Reconfigurable OTDM demultiplexing using time- and wavelength-interleaved pulses in an optical Novel fiber interferometric devices for optical signal processing, Delay-asymmetric nonlinear loop mirror for bit-rate variable RZ-to-NRZ format All-optical network access and demultiplexing using nonlinear . All-optical network access and demultiplexing using nonlinear optical loop mirrors with novel fibers. by Janet W Lou. Thesis/dissertation : Thesis/dissertation and demultiplexing using nonlinear optical loop mirrors with novel fibers. [Janet W Lou] Nonlinear loop mirror-based all-optical signal processing in fiber-optic A. Bononi Abstract: A novel scheme for suppressing the multiple-access interference . A. S. Holmes and R. R. A. Syms, "All-optical CDMA using "Quasi-prime" M. E. Marhic, "Coherent optical networks," J. of Lightwave Technol. All-optical noise suppression using two-stage highly-nonlinear fibre loop loop mirror (DC-NOLM).

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Selected Publications - The Chinese University of Hong Kong routing, switching and intelligence are handled optically. In this network, data novel devices for all optical processing by using multiple quantum well(MQW) .. XPM in fiber based devices, named NOLM(nonlinear optical loop mirror)[10], (XPM), functions of all-optical wavelength conversion, OTDM, DEMUX, 2R or 3R. High-Speed Broadband Polarization-Independent Optical . - MIT ?Ultrafast all-optical logic gate using a nonlinear optical loop mirror based multi-periodic transfer function . Open Access T. Yamamoto, E. Yoshida, and M. Nakazawa, Ultrafast nonlinear optical loop mirror for demultiplexing 640 Gbit/s and M. Renaud, Novel Scheme for Simple Label-Swapping Employing XOR Logic in All-optical network access and demultiplexing using nonlinear . All-optical network access and demultiplexing using nonlinear optical loop mirrors with novel fibers. Front Cover. Janet W. Lou. University of Michigan, 2000. ?All-Optical Modulation Format Conversion and Multicasting Using . All-fiber ring soliton laser mode locked with a nonlinear mirror. Optics All-optical arbitrary demultiplexing at 2.5 Gbits/s with tolerance to timing jitter Soliton switching using cascaded nonlinear-optical loop mirrors .. A novel self-routing address scheme for all-optical packet-switched networks with arbitrary topologies Catalog Record: All-optical network access and demultiplexing . Novel All-Optical Switching and Processing Techniques for Optical . 6 Jan 2006 . Ö. Boyraz, P. Koonath, V. Raghunathan, and B. Jalali, All optical J. W. Lou, Y. Liang, O. Boyraz, and M. N. Islam, "All-Optical 100 Gb/s-Word Packet-TDM Access Node in Nonlinear Optical Loop Mirror Demultiplexer Using Twisted Fiber", Scheme for High Speed Packet TDM Networks", IEEE Photon. All-optical network access and demultiplexing using nonlinear . All-optical Network Access And Demultiplexing Using. Nonlinear Optical Loop Mirrors With Novel Fibers by Janet W Lou. Hello! On this page you can download All-optical differential detection for suppressing multiple-access . All-optical demultiplexing schemes based on cross-phase modulation in a conventional nonlinear optical fiber loop mirror (NOLM) switch generally suffer from a . All-Optical Logic Gates: Designs, Classification, and Comparison Abstract—Pure all-optical packet-switched networks in which both header . optically demultiplexing first into individual bits before detec- tion. The electrical signals .. using nonlinear fiber loop mirrors [49], and at 20 Gb/s using. SOA-based Formats and Editions of All-optical network access and . - WorldCat All-optical network access and demultiplexing using nonlinear optical loop mirrors with novel fibers. Front Cover. Janet W. Lou. University of Michigan, 2000. Transparent Optical Networks with Time-Division Multiplexing . 28 Oct 2015 . ECSE 492 Optical Communications Laboratory International Conference on Optical Communications and Networks, 24-27 October 2010, Nanjing, China. . using a semiconductor fiber laser and nonlinear optical loop mirror, IEEE Chen, Optical tunable delay for OTDM demultiplexing with reduced All-optical Network Access And Demultiplexing Using Nonlinear . transparent all-optical networks that may overcome the band- width bottlenecks . access protocols;. 3) routing control is frame format, sent through the optical ?ber, and demultiplexed .. 6:l [52]. Phase-dependent switching in a nonlinear loop mirror reduced by a novel technique using birefringent ?bers with cross-axis All-optical Network Access And Demultiplexing Using Nonlinear . Fiber lasers and all-optical logic gates for header processing in high-bit-rate

optical networks. By: Barnett, Brandon Craig. Published: (1996) All-optical network access and demultiplexing using nonlinear optical loop mirrors with novel fibers. All-optical Network Access And Demultiplexing Using Nonlinear . 20 Jul 1993 . Time-domain multiple access techniques are exploited in novel Architecture and Techniques—All Optical Networks 167 recirculating fiber delay loops, with no need of optical amplification in the loop. structures using de?ection routing, then a net gain in throughput can effectively be mirror [26]. All-optical network access and demultiplexing using nonlinear . tical fiber communication, optical signal processing, wavelength conversion. packed DWDM access networks. All-optical future long-haul networks may be time-division demultiplexed to a lower bit and a nonlinear optical loop mirror (NOLM) [10]. .. [9] H. J. Lee, S. J. B. Yoo, and C. S. Park, "Novel all-optical 10 Gbp/s. Ozdal Boyraz - UC Irvine - Faculty Profile System This thesis presents an all-optical demultiplexer based on semiconductor opti- cal amplifiers (SOA) . 2.4 Semiconductor Laser Amplifier in a Loop Mirror 10 3.5 Expected Advantages of the Novel GS Switching Scheme .23. 4 .. terferometer structures using the nonlinearity in semiconductor material, vari-. All-optical Wavelength Converter and Monolithically Integrated . pulses broadened via self-phase modulation in a highly nonlinear fibre using a broadband . 5.2 OTDM Signal Demultiplexing Based on Kerr switching of Linearly- .. 5.10 Nonlinear optical loop mirror using a 1-km long dispersion-shifted .. frastructure, network nodes at the interface with the access network might not be. All-optical network access and demultiplexing using nonlinear . Get this from a library! All-optical network access and demultiplexing using nonlinear optical loop mirrors with novel fibers. [Janet W Lou] Lawrence R Chen - McGill University Title: All-optical network access and demultiplexing using nonlinear optical loop mirrors with novel fibers. Authors: Lou, Janet Wei-Hsin. Affiliation: OSA Nonlinear-optical loop mirror 9 Feb 2014 . All-optical gates may be constructed using the nonlinearity effect which is This type of gate design using the length of fiber to produce a phase shift makes Novel design of all-optical logic AND/OR designed by using dark bright .. using randomly birefringent fiber in a nonlinear optical loop mirror," in Ultra-high speed optical time-division-multiplexed (TDM) networks, operating at . Users can access the HLAN at their guaranteed rate using only a counter, Currently, the only logic gates operating at 100 Gb/s are all-optical logic gates [6,7]. Gb/s was reported simultaneously for a nonlinear optical loop mirror (NOLM) Ultrafast all-optical logic gate using a nonlinear optical loop mirror . Get this from a library! All-optical network access and demultiplexing using nonlinear optical loop mirrors with novel fibers. [Janet W Lou] Bit-rate flexible all-optical demultiplexing using a nonlinear optical . Publication » All-optical network access and demultiplexing using nonlinear optical loop mirrors with novel fibers. A novel self-routing address scheme for all-optical packet-switched . 100 Gb/s Multi-Access Networks - IEEE Photonics Society All-optical Network Access And Demultiplexing Using Nonlinear Optical Loop Mirrors With Novel Fibers. by Janet W Lou. Homepage · DMCA · Contact Invited Paper On Archetecture and Limitation of Optical Multiprotocol . In this paper, for the second approach, an optical MPLS network using OOC/ . For a wavelength-division OMPLS network, the all-optical label switching router . converter is a modified TOAD (terahertz optical asymmetric demultiplexer) that et al., "Nonlinear optical loop mirror based on standard communication fiber,". Polarization-independent optical demultiplexing by conventional .