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# Coherent Nonlinear Lightwave Communications Artech

**non-linear filtering applied to the estimation of the ...** - [5]cvijetic m., coherent and nonlinear lightwave communications, artech house, inc., 1996. [6]lindsey w.c., synchronization systems in communications and control, prentice-hall,1972.. [7]kazovsky, l.g., a 1320-nm experimental optical phase-locked loop: performance investigation and psk homodyne experiments at 140 mb/s and 2 gb/s, *ieeE Journ of ...* **ultrafast optical pulse shaping: a tutorial review** - ultrafast optical pulse shaping: a tutorial review andrew m. weiner ... processes and of lightwave communications. two new areas of pulse shaping research, namely, hyperfine ... coherent control of nonlinear and quantum mechanical processes and in lightwave communications. the applications selected represent **coherent detection in optical fiber systems - eeanford** - 7. k. kikuchi, "coherent detection of phase-shift keying signals using digital carrier-phase estimation," in proceedings of *ieeE conference on optical fiber communications, (institute of electrical and electronics engineers, anaheim, 2006), paper otui4.* **ultrafast optical pulse shaping: a tutorial review** - discussion of coherent control of quantum and nonlinear process and of lightwave communications. two new areas of pulse shaping research, namely, hyperfine spectral resolution pulse shaping and pulse shaping applications in ultrabroadband rf photonics, are discussed and illustrated with examples taken from the author's laboratory. **perspective of statistical learning for nonlinear ...** - perspective of statistical learning for nonlinear equalization in coherent optical communications toshiaki koike-akino mitsubishi electric research laboratories (merl), 201 broadway, cambridge, ma 02139, usa. **pmd compensation in fiber-optic communication systems with ...** - compensation in fiber-optic communication systems with direct detection ... 11. w. shieh, w. chen and r.s. tucker, "polarization mode dispersion mitigation in coherent optical orthogonal frequency division multiplexed systems," *electron. ...* 15. m. cvijetic, coherent and nonlinear lightwave communications (artech house, boston 1996). 16. ... **502 journal of lightwave technology fiber impairment ...** - 502 journal of lightwave technology fiber impairment compensation using coherent ... we provide a unified multiblock nonlinear model for the joint compensation of the impairments in fiber transmission. we show that commonly used techniques for over- ... interest in coherent optical communications began in the late **nonlinearity-tolerant modulation formats for coherent ...** - optical communications and devices power & rf digital video speech & audio information security compressive sensing predictive modeling decision optimization computer vision machine learning / deep learning computational geometry computational photography control algorithms system-level modeling and simulation nonlinear dynamical systems 02/23 ... **alamouti-type polarization-time coding in coded-modulation ...** - alamouti-type polarization-time coding in coded-modulation schemes with coherent detection ... scheme suitable for use in multilevel ( $m \geq 2$ ) block-coded modulation schemes with coherent detection. the pt-decoder is found to be similar to ... coherent and nonlinear lightwave communications, artech house, boston 1996. **journal of lightwave technology, vol. 33, no. 18 ...** - journal of lightwave technology, vol. 33, no. 18, september 15, 2015 3763 modified nonlinear decision feedback equalizer for long-haul fiber-optic communications deepyaman maiti and ma "it ´e brandt-pearce abstract—in a long-haul optical ... coherent de-tection is often preferred since it supports spectrally efficient modulation formats ... **modulation format dependence of digital nonlinearity ...** - nonlinearity compensation performance in optical fibre communication systems ... (060.2330) fiber optics communications; (060.1660 ) coherent communications; (060.4370) nonlinear optics, fibers . references and links ... "nonlinear shannon limit in pseudolinear coherent systems," *j. lightwave technol.* 30 (12), 2011-2024 (2012). **digital signal processing for optical communications and ...** - traditional coherent lightwave systems, while they can be solved by the carrier phase estimation and the polarization equalization respectively in the digital coherent optical transmission systems [47-55]. besides, the chromatic dispersion and the nonlinear effects can also be mitigated by using the digital signal **nonlinear inverse synthesis for high spectral efficiency ...** - [22] a.s. fokas and i. m. gelfand. "integrability of linear and nonlinear evolution equations and the associated nonlinear fourier transforms," *letters in mathematical physics* 32, 189-210 (1994). [23] a. hasegawa and t. nyu, "eigenvalue communication," *journal of lightwave technology* 11, 395-399 (1993). **periodic nonlinear fourier transform for fiber-optic ...** - periodic nonlinear fourier transform (pnft), following the introduction of the method in the part i. we show that the famous "eigenvalue communication" idea [a. hasegawa and t. nyu, *j. lightwave technol.* 11, 395 (1993)] can also be generalized for the pnft application: in this

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