

## Bibliografia

- [1] ONO, T.; YAMAZAKI, S.; SHIMIZU, H. ; EMURA, H.. Polarisation control method for suppressing polarisation mode dispersion in optical transmission systems. *Journal of Lightwave Technology*.
- [2] HEISMANN, F.; FISHMAN, D. A. ; WILSON, D. L.. Method and apparatus for automatic compensation of first-order polarization mode dispersion (PMD). United States Patent, Patent number: 5930414.
- [3] VON DER WEID, J. P.; LINARES, L. C. B. ; FARIA, G. V.. Method and apparatus for polarization mode dispersion compensation. US Patent Application 20040202480.
- [4] PENNINCKX, D.; LANNE, S.. Ultimate limits of optical polarization-mode dispersion compensators. European conference on Optical Communication, 2000. ECOC 2000, (3):205–206.
- [5] RASHLEIGH, S. C.; ULRICH, R.. Polarization-mode dispersion in single-mode fibers. *Optics Letters*, 13:60–62, 1978.
- [6] M. J. MARRONE, S. C. R.; BLASZYK, P. E.. Polarization properties of birefringent fibers with stress rods in the cladding. *Journal of Lightwave Technology*, LT-2(2):155–160, April 1984.
- [7] POOLE, C. D.; WAGNER, R. E.. Phenomenological approach to polarization deispersion in long single-mode fibers. *Electronics Letters*, 22(19), 1986.
- [8] D. ANDRESCIANI, F. CURTI, F. M. N. B. D.. Measurements of group-delay difference between the principal states of polarization on a low-birefringence terrestrial fiber cable. *Optics Letters*, 12:844–846, 1987.
- [9] POOLE, C. D.; GILES, C. R.. Polarization-dependent pulse compression and broadening due to polarization dispersion in

- dispersion-shifted fiber. *Optics Letters*, 13(2):155–157, February 1988.
- [10] C. D. POOLE, R. W. TKACH, A. R. C.; FISHMAN, D. A.. **Fading in lightwave systems due to polarization-mode dispersion.** *IEEE Photonics Technology Letters*, 3(1):68–70, January 1991.
- [11] C. DE ANGELIS, A. GALTAROSSA, G. G. F. M.; SCHIANO, M.. **Time evolution of polarization mode dispersion in long terrestrial links.** *Journal of Lightwave Technology*, 10(5):552–555, May 1992.
- [12] HUARD, S.. **Polarization de la Lumière.** Masson, Paris, first edition, 1993.
- [13] D. SCHLUMP, B. W.; BÜLOW, H.. **Electronic equalization of PMD and chromatic dispersion induced distortion after 100 km standard single mode fibre at 10 Gb/s.** *Proceedings ECOC '98*, 3:535–536, 1998.
- [14] DE O. DAL FORNO, A.. **Estudo da PMD em Fibras Ópticas e seus Efeitos em Transmissões Digitais de Alta Capacidade.** Tese de doutorado da puc-rio edition, 1999.
- [15] A. GAVLER, S. SÄRKIMUKKA, A. D.; JACOBSEN, G.. **Mitigation of polarization mode dispersion in optical multichannel systems.** *Journal of Lightwave Technology*, 18(10):1374–1380, October 2000.
- [16] M. KARLSSON, J. B.; ANDREKSON, A.. **Long-term measurement of PMD and polarization drift in installed fibers.** *Journal of Lightwave Technology*, 18(7):941–951, July 2000.
- [17] GORDON, J. P.; KOGELNIK, H.. **PMD fundamentals: polarization mode dispersion in optical fibers.** *Proceedings of the National Academy of Sciences of the USA*, 97(9):4541–4550, April 2000.
- [18] A. O. DAL FORNO, A. PARADISO, R. P.; VON DER WEID, J. P.. **Experimental and theoretical modeling of polarization-mode dispersion in single-mode fibers.** *IEEE Photonics Technology Letters*, 12(3):296–298, March 2000.
- [19] SHTAIF, M.; MECOZZI, A.. **Study of the frequency autocorrelation of the differential group delay in fibers with polarization mode dispersion.** *Optics Letters*, 25(10):707–709, May 2000.

- [20] WEDDING, B.; HASLACH, C. N.. Enhanced PMD mitigation by polarization scrambling and forward error correction. Opt. Fiber Communication Conference Exp., 3, March 2001.
- [21] Y. W. SONG, P. EBRAHIMI, R. K. S. A. H.; WILLNER, A. E.. Polarization mode dispersion compensation in WDM systems. IEEE Photonics Technology Letters, 13(12):1370–1372, December 2001.
- [22] I. T. LIMA JR, R. KHOSRAVANI, P. E. E. I. C. R. M.; WILLNER, A. E.. Comparison of polarization mode dispersion emulators. Journal of Lightwave Technology, 19(12):1872–1881, December 2001.
- [23] SUNNERUD, H.; XIE, C.; KARLSSON, M.; SAMUELSSON, R. ; ANDREKSON, P. A.. A comparison between different PMD compensation techniques. Journal of Lighwave Technology, 20(3):368–, March 2002.
- [24] R. CAPONI, B. RIPOSATI, A. R.; SCHIANO, M.. WDM system impairments due to highly-correlated PMD spectra of buried optical cables. Electronics Letters, 38:737–738, July 2002.
- [25] G. BIONDINI, W. L. K.; MENYUK, C. R.. Importance sampling for polarization-mode dispersion. IEEE Photonics Technology Letters, 14(2):310–312, February 2002.
- [26] CAPONI, R.; RIPOSATI, B.; ROSSANO, A. ; SCHIANO, M.. WDM design issues with highly correlates WDM spectra of buried optical cables. Optical fiber Communication, paper ThI5, 2002.
- [27] SCHIANO, M.. PMD measurements on installed fibers and polarization sensitive components. PMD Venice Summer School, 2002.
- [28] MORELOS-ZARAGOZA, R. H.. The Art of Error Correcting Codes. John Wiley e Sons, LTD, 2002.
- [29] CURTI, F.; DAINO, B.; MARCHIS, G. D. ; MATERA, F.. Statistical treatment of the evolution of the principal states os polarization in single-mode fibers. Journal of Lightwave Technology, 8(8):1162–1166, August 2002.
- [30] LINARES, L. C. B.. Estudo da Compensação da Dispersão dos Modos de Polarização em Sistemas Ópticos. Tese de doutorado da puc-rio edition, 2003.

- [31] LINARES, L. C. B.; VON DER WEID, J. P.. **Comparison of first order PMD compensation techniques.** Proceedings IEEE International Microwave and Optoelectronics Conference 2003, 2(20-23):1019–1022, September 2003.
- [32] ISHIKAWA, G.. **Automatic compensation chromatic dispersion and polarization-mode dispersion in 40 Gb/s based wdm systems.** ECOC 2003, 2003.
- [33] XIE, C.; LIU, X.. **Mitigation of polarization mode dispersion in multichannel lightwave transmission systems.** IEEE Photonics Technology Letters, 15(8):1070–1072, August 2003.
- [34] BRODSKY, M.; BORODITSKY, M.; FRIGO, N. J.; MAGILL, P. ; TUR, M.. **Field PMD measurements through a commercial raman-amplified ULH transmission system.** LEOS PMD Summer Topical Meeting, paper MB3.3, 2003.
- [35] M. BORODITSKY, M. BRODSKY, N. J. F. P. M.; RADDATZ, L.. **In-service measurements of polarization-mode dispersion and correlation to bit-error rate.** IEEE Photonics Technology Letters, 15(4):572–574, April 2003.
- [36] X. LIU, C. X.; VAN WIJNGAARDEN, A. J.. **Multichannel PMD mitigation through forward-error-correction with distributed fast PMD scrambling.** Optical Fiber Communication Conference, 2004. OFC 2004, 1(23-27), February 2004.
- [37] EISELT, M. H.; NAGEL, J. A.. **Polarization mode dispersion compensation.** Pedido de Patente, 2004.
- [38] M. BRODSKY, P. M. E. N. J. F.. **Polarization-mode dispersion of installed recent vintage fiber as a parametric function of temperature.** IEEE Photonics Technology Letters, 16:209–211, January 2004.
- [39] M. BRODSKY, M. BORODITSKY, P. M. N. J. F.; TUR, M.. **Channel-to-channel variation of non-maxwellian statistics of DGD in a field installed system.** Eur. Conf. Optical Communication - ECOC 2004, 3:306–309, 2004.
- [40] M. BRODSKY, M. BORODITSKY, P. M. N. J. F.; TUR, M.. **A “hinge” model for the temporal dynamics of polarization**

- mode dispersion.** Proc. 17th Annu. Meeting IEEE Laser and Electro-Optics Society (LEOS 2004), 1(7-11):90–91, November 2004.
- [41] Z. LI, J. MO, Y. D. Y. W.; LU, C.. **Experimental evaluation of the effect of polarization scrambling speed on the performance of PMD mitigation using fec.** OFC, 1:936–938, February 2004.
- [42] LIU, X.; GILES, C. R.; WEI, X.; KAO, Y.-H.; XIE, C.; MÖLLER, L.; KANG, I. ; VAN WIJNGAARDEN, A. J.. **Experimental demonstration of broadband PMD mitigation through distributed fast polarization scrambling and fec.** 30th Eur. Conf. Optical Communication, ECOC'04, September 2004.
- [43] X. LIU, C. X.; VAN WIJNGAARDEN, A. J.. **Multichannel PMD mitigation and outage reduction through FEC with sub-burst-error-correction period PMD scrambling.** IEEE Photonics Technology Letters, 16(9):2183–2185, September 2004.
- [44] S. HADJIFARADJI, L. CHEN, D. S. W.; BAO, X.. **Autocorrelation function os the principal state of polarization vector for systems having PMD.** IEEE Photonics Letters, 16(6):1489–1491, June 2004.
- [45] NELSON, L. E.; JOPSON, R. M.. **Introduction to polarization mode dispersion in optical systems.** in *Polarization Mode dispersion*, published by Springer New York, 2005.
- [46] B. FRANZ, D. RÖSENER, R. D. F. B. B. J. T. F. M.; AUFINGER, K.. **43 Gb/s SiGe based electronic equalizer for PMD and chromatic dispersion mitigation.** Proceedings ECOC'2005 - paper We1.3.1, 3:333–334, 2005.
- [47] MACÊDO, J. F.; VON DER WEID, J. P.. **Time domain PMD simulation in optical fibers and emulators.** IEEE/LEOS Workshop of Fibres and Optical Passive Components, 2005, Palermo. Proceedings WFOPC 2005, p. 176–180, June 2005.
- [48] M. BORODITSKY, C. A.; MECOZZI, A.. **Broadband PMD mitigation using a mid-span polarization controller.** 31st European conference on Optical Communication, 2005. ECOC 2005, 3:341–342, September 2005.

- [49] LIU, X.; GILES, C. R.; WEI, X.; VAN WIJNGAARDEN, A. J.; KAO, Y.-H.; XIE, C.; MÖLLER, L. ; KANG, I.. Demonstration of broad-band PMD mitigation in the presence of PDL through distributed fast polarization scrambling and forward-error-correction. *IEEE Photonics Technology Letters*, 17(5):1109–1111, May 2005.
- [50] MACEDO, J. F.; VON DER WEID, J. P.. Spectral correlations of PMD variables in optical fibers. *Conference on Microwave and Optoelectronics, 2005 SBMO/IEEE MTT-S*, p. 459 – 462, July 2005.
- [51] BRODSKY, M.; BORODITSKY, M.; MAGILL, P. ; FRIGO, N. J.. Persistence of spectral variations in DGD statistics. *Optics Express*, 13(11):4090–4095, May 2005.
- [52] KOGELNIK, H.; WINZER, P. J.; NELSON, L. E.; JOPSON, R. M.; BORODITSKY, M. ; BRODSKY, M.. First-order PMD outage for the hinge model. *IEEE Photonics Technology Letters*, 17(6):1208–1210, June 2005.
- [53] ANTONELLI, C.; MECOZZI, A.. Theoretical characterization and system impact of the hinge model of PMD. *Journal of Lightwave Technology*, 24(11):4064–4074, November 2006.
- [54] YAN, L.-S.; YAO, X. S. ; WILLNER, A. E.. Enabling “hinge” model in polarization-mode-dispersion statistics using variable differential-group-delay-based emulator. *IEEE Photonics Technology Letters*, 18(2):427–429, January 2006.
- [55] BRODSKY, M.; FRIGO, N. J.; BORODITSKY, M. ; TUR, M.. Polarization mode dispersion of installed fibers. *Journal of Lightwave Technology*, 24(12):4584–4599, December 2006.
- [56] VON DER WEID, J. P.. System and method for pmd mitigation. Pedido de Patente, 2006.
- [57] POGGIOLETTI, P.; NESPOLA, A.; ABRATE, S.; FERRERO, V. ; LEZZI, C.. Long-term PMD characterization of a metropolitan G.652 fiber plant. *Journal of Lightwave Technology*, 24(11):4022–4029, November 2006.
- [58] MIZUOCHI, T.. Recent progress in forward error correction and its interplay with transmission impairments. *IEEE Journal of Selected Topics in Quantum Electronics*, 12(4):544–554, July 2006.

- [59] C. ANTONELLI, A. MECOZZI, M. B.; BORODITSKY, M.. **A simple analytical model for PMD temporal evolution.** Optical Fiber Communication Conference, OFC '2006, March 2006.
- [60] TEMPORÃO, G. P.. **Um Polarímetro de Baixo Custo.** Dissertação de mestrado da puc-rio edition, Julho de 2003.