[1] H. C. Ferreira, L. Lampe, J. Newbury, and T. G. Swart, Power Line Communications: Theory and Applications for Narrowband and Broadband Communications over Power Lines. Wiley, 2010.

[2] L. Cheng and H. C. Ferreira, “Time-diversity permutation coding scheme for narrow-band power-line channels,” in Power Line Communications and Its Applications (ISPLC), 2012 16th IEEE International Symposium on. IEEE, 2012, pp. 120–125.

[3] L. Zegers, “Error control in telephone channels by means of time diversity,” Philips Res. Rep, vol. 22, pp. 315–328, 1967.

[4] A. R. Ndjiongue, H. C. Ferreira, and L. Cheng, “Hybrid PLC-VLC channel model and spectral estimation using a non-parametric approach,” Submitting to IEEE transactions on communications, 2016.

[5] P. Misra, S. Kanhere, D. Ostry, and S. Jha, “Safety assurance and rescue communication systems in high-stress environments: a mining case study,” IEEE Communications Magazine, vol. 48, no. 4, pp. 66–73, 2010.

[6] E. Witrant, A. D’Innocenzo, A. J. Isaksson, M. D. Di Benedetto, K. H. Johansson, F. Santucci, and M. Strand, “Mining ventilation control: a new industrial case for wireless automation,” in IEEE CASE, Washington DC, USA. IEEE, 2008.

[7] E. Witrant, A. D’Innocenzo, G. Sandou, F. Santucci, M. D. Di Benedetto, A. J. Isaksson, K. H. Johansson, S.-I. Niculescu, S. Olaru, E. Serra, et al., “Wireless ventilation control for large-scale systems: The mining industrial case,” International Journal of Robust and Nonlinear Control, vol. 20, no. 2, pp. 226–251, 2010.

[8] A. Chehri and H. Mouftah, “Radio channel characterization through leaky feeder for different frequency bands,” in 21st Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications. IEEE, 2010, pp. 347–351.

[9] J. Ralston, C. Hargrave, and D. Hainsworth, “Localisation of mobile underground mining equipment using wireless ethernet,” in Fourtieth IAS Annual Meeting. Conference Record of the 2005 Industry Applications Conference, 2005.,vol. 1. IEEE, 2005, pp. 225–230.

[10] D. J. Martin, “Leaky-feeder radio communication: A historical review,” in Vehicular Technology Conference, 1984. 34th IEEE, vol. 34. IEEE, 1984, pp. 25–30.

[11] R. Isberg, “Radio communication in subways and mines through repeater amplifiers and leaky transmission lines,” in Vehicular Technology Conference, 1978. 28th IEEE, vol. 28. IEEE, 1978, pp. 248–254.

[12] M. Li ́enard and P. Degauque, “Natural wave propagation in mine environments,” IEEE Transactions on Antennas and Propagation, vol. 48, no. 9, pp. 1326–1339, 2000.

[13] P. Delogne, “Basic mechanisms of tunnel propagation,” Radio Science, vol. 11, no. 4, pp. 295–303, 1976.

[14] D. T. Updyke, W. C. Muhler, and H. C. Turnage, “An evaluation of leaky feeder communication in underground mines,” US Dept. Interior, Bureau of Mines, 1980.

[15] A. A. Saleh, A. Rustako, and R. Roman, “Distributed antennas for indoor radio communications,” IEEE Transactions on Communications, vol. 35, no. 12, pp. 1245–1251, 1987.

[16] D. Martin, “A general study of the leaky-feeder principle,” Radio and Electronic Engineer, vol. 45, no. 5, pp. 205–214, 1975.

[17] Y. P. Zhang, “Indoor radiated-mode leaky feeder propagation at 2.0 ghz,” IEEE Transactions on Vehicular Technology, vol. 50, no. 2, pp. 536–545, 2001.

[18] L. Bandyopadhyay, P. Mishra, S. Kumar, and A. Narayan, “Radio frequency communication systems in underground mines,” in Proceedings of International Seminar on 28th General Assembly of International Union of Radio Science, 2005.11

[19] G. A. Kennedy and P. J. Foster, “High resilience networks and microwave propagation in underground mines,” in 2006 European Conference on Wireless Technology. IEEE, 2006, pp. 193–196.

[20] S. Yarkan, S. Guzelgoz, H. Arslan, and R. R. Murphy, “Underground mine communications: A survey,” IEEE Communications Surveys & Tutorials, vol. 11, no. 3, pp. 125–142, 2009.

[21] H. C. Ferreira, H. Grove, O. Hooijen, and A. H. Vinck, “Power line communications: an overview,” in AFRICON, 1996., IEEE AFRICON 4th, vol. 2. IEEE, 1996, pp. 558–563.

[22] H. C. Ferreira, H. M. Grov ́e, O. Hooijen, and A. Han Vinck, Power line communication. Wiley Online Library, 2001.

[23] A. Tonello, J. Song, S. Weiss, and F. Wang, “PLC for the smart grid: State-of-the-art and challenges,” in 4th International Conference on Communications, Mobility, and Computing, 2012, pp. 225–228.

[24] F. Swarts and H. C. Ferreira, “Markov characterization of channels with soft decision outputs,” IEEE Transactions on Communications, vol. 41, no. 5, pp. 678–682, 1993.

[25] H. C. Ferreira, C. Coetzee, and M. A. Herro, “Mathematical models for super channels with imbedded constrained codes,” IEEE transactions on information theory, vol. 39, no. 3, pp. 1094–1100, 1993.

[26] D. Oosthuizen, H. C. Ferreira, and F. Swarts, “On renewal inner channels and block code error control super channels,” IEEE transactions on communications, vol. 42, no. 9, pp. 2645–2649, 1994.

[27] F. Swarts and H. C. Ferreira, “Markov characterization of digital fading mobile VHF channels,” IEEE Transactions on Vehicular Technology, vol. 43, no. 4, pp. 977–985, 1994.

[28] A. Kuznetsov, F. Swarts, A. H. Vinck, and H. C. Ferreira, “On the undetected error probability of linear block codes on channels with memory,” IEEE Transactions on Information Theory, vol. 42, no. 1, pp. 303–309, 1996.

[29] J. S. Swarts and H. C. Ferreira, “On the evaluation and application of markov channel models in wireless communications,” in Vehicular Technology Conference, 1999. VTC 1999-Fall. IEEE VTS 50th, vol. 1. IEEE, 1999, pp. 117–121.

[30] J. S. Swart and H. C. Ferreira, “Gilbert channel model parameters for gmsk on a rayleigh fading channel,” Transactions of the South African Institute of Electrical Engineers, vol. 92, no. 3, pp. 70–74, 2001.

[31] A. D. Familua, A. O. Qatarey, P. A. J. Van Rensburg, and L. Cheng, “Error pattern/behavior of noise in in-house CENELEC A-Band PLC channel,” in Power Line Communications and Its Applications (ISPLC), 2012 16th IEEE International Symposium on. IEEE, 2012, pp. 114–119.

[32] A. D. Familua and L. Cheng, “Modeling of in-house CENELEC A-band PLC channel using Fritchman model and Baum-Welch algorithm,” in Power Line Communications and Its Applications (ISPLC), 2013 17th IEEE International Symposium on. IEEE, 2013, pp. 173–178.

[33] A. D. Familua, “Noise modeling for standard CENELEC A-band power line communication channel,” Ph.D. dissertation, University of the Witwatersrand, 2013.

[34] M. Wilson, H. Ferreira, R. Heymann, and A. Emleh, “Bit error recording and modelling of in-vehicle power line communication,” in Power Line Communications and its Applications (ISPLC), 2014 18th IEEE International Symposium on. IEEE, 2014, pp. 58–63.

[35] K. Ouahada, H. Ferreira, A. H. Vinck, and W. Clarke, “Combined higher order spectral nulls codes and ofdm modulation for power line communications,” in 2006 IEEE International Symposium on Power Line Communications and Its Applications. IEEE, 2006, pp. 122–127.

[36] K. Ouahada, H. Ferreira, A. H. Vinck, A. Snyders, and T. Swart, “Combined spectral shaping codes and OFDM modulation for narrowband interference channels,” Transactions of the South African Institute of Electrical Engineers, 2007.12

[37] ——, “Cancellation and error correction for narrowband interference with spectral nulls codes and ofdm modulation,” in AFRICON 2007. IEEE, 2007, pp. 1–7.

[38] K. T. Ouahada, “Coded modulation for power-line communication channel,” Ph.D. dissertation, University of Johannesburg, 2009.

[39] M. Ndlovu and L. Cheng, “An OFDM inter-subcarrier permutation coding scheme for power-line communication,” in Power Line Communications and its Applications (ISPLC), 2014 18th IEEE International Symposium on. IEEE, 2014, pp. 196–201.

[40] O. G. Hooijen, “A channel model for the residential power circuit used as a digital communications medium,” IEEE transactions on electromagnetic compatibility, vol. 40, no. 4, pp. 331–336, 1998.

[41] M. Zimmermann and K. Dostert, “Analysis and modeling of impulsive noise in broad-band powerline communications,” IEEE transactions on Electromagnetic compatibility, vol. 44, no. 1, pp. 249–258, 2002.

[42] A. Familua, K. Ogunyanda, T. G. Swart, H. Ferreira, R. Van Olst, and L. Cheng, “Narrowband PLC channel modeling using USRP and PSK modulations,” in Power Line Communications and its Applications (ISPLC), 2014 18th IEEE International Symposium on. IEEE, 2014, pp. 156–161.

[43] A. Familua, A. Ndjiongue, K. Ogunyanda, L. Cheng, H. Ferreira, and T. Swart, “A semi-hidden markov modeling of a low complexity FSK-OOK in-house PLC and VLC integration,” in Power Line Communications and its Applications (ISPLC), 2015 International Symposium on. IEEE, 2015, pp. 199–204.

[44] D. Middleton, “Procedures for determining the parameters of the first-order canonical models of Class A and Class B electromagnetic interference [10],” IEEE Transactions on electromagnetic compatibility, no. 3, pp. 190–208, 1979.

[45] ——, “Canonical and quasi-canonical probability models of Class A interference,” IEEE Transactions on Electromagnetic Compatibility, no. 2, pp. 76–106, 1983.

[46] S. M. Zabin and H. V. Poor, “Parameter estimation for middleton class a interference processes,” IEEE Transactions on Communications, vol. 37, no. 10, pp. 1042–1051, 1989.

[47] H. C. Ferreira and A. H. Vinck, “Interference cancellation with permutation trellis codes,” in Vehicular Technology Conference, 2000. IEEE-VTS Fall VTC 2000. 52nd, vol. 5. IEEE, 2000, pp. 2401–2407.

[48] D. Versfeld, A. H. Vinck, and H. Ferreira, “Reed-solomon coding to enhance the reliability of M-FSK in a power line environment,” in International Symposium on Power Line Communications and Its Applications, 2005. IEEE, 2005, pp. 100–104.

[49] T. Swart, I. De Beer, H. Ferreira, and A. Vinck, “Simulation results for permutation trellis codes using M-ary FSK,” in Proc. Int. Symp. on Power Line Commun. and its Applications, Vancouver, BC, Canada, 2005, pp. 317–321.

[50] K. Ouahada, H. Ferreira, A. Vinck, and L. Cheng, “On combined spectral shaping coding and M-FSK modulation for power line communications,” in International Symposium on Power-Line Communications and its Applications, 2005, pp.351–355.

[51] T. G. Swart and H. C. Ferreira, “A generalized upper bound and a multilevel construction for distance-preserving mappings,” IEEE transactions on information theory, vol. 52, no. 8, pp. 3685–3695, 2006.

[52] L. Cheng, T. G. Swart, and H. C. Ferreira, “Adaptive rateless permutation coding scheme for OFDM-based PLC,” in Power Line Communications and Its Applications (ISPLC), 2013 17th IEEE International Symposium on. IEEE, 2013, pp. 242–246.

[53] H. C. Ferreira, A. H. Vinck, T. G. Swart, and I. de Beer, “Permutation trellis codes,” IEEE Transactions on Communications, vol. 53, no. 11, pp. 1782–1789, 2005.13

[54] K. Ogunyanda, A. Familua, T. Swart, H. Ferreira, and L. Cheng, “Adaptive permutation coded differential OFDM system for power line communications,” in 2014 IEEE 6th International Conference on Adaptive Science & Technology (ICAST). IEEE, 2014, pp. 1–7.

[55] M. M. C. Ndlovu, “A permutation coding and OFDM-MFSK modulation scheme for power-line communication,” Ph.D. dissertation, University of the Witwatersrand, 2015.

[56] K. Rabie, E. Alsusa, A. Familua, and L. Cheng, “Constant envelope ofdm transmission over impulsive noise power-line communication channels,” in Power Line Communications and its Applications (ISPLC), 2015 International Symposium on. IEEE, 2015, pp. 13–18.

[57] Y. Rivard, “A time diversity scheme by using fountain codes for narrowband power-line communications,” Ph.D. dissertation, University of the Witwatersrand, 2016.

[58] K. Ouahada, T. G. Swart, H. C. Ferreira, and L. Cheng, “Spectral shaping technique for permutation distance-preserving mapping codes,” in Information Theory Workshop, 2007. ITW’07. IEEE. IEEE, 2007, pp. 36–41.

[59] L. Cheng, T. G. Swart, and H. C. Ferreira, “Synchronization using insertion/deletion correcting permutation codes,” in Proc. IEEE Int. Symp. on Powerline Commun. and its Applic., Jeju Island, Korea, 2008, pp. 135–140.

[60] ——, “Re-synchronization of permutation codes with Viterbi-like decoding,” in Proc. IEEE Int. Symp. on Powerline Commun. and its Applic., Dresden, Germany, 2009, pp. 36–40.

[61] K. Ogunyanda, A. Familua, T. Swart, H. Ferreira, and L. Cheng, “Permutation coding with differential quinary phase shift keying for power line communication,” in IEEE PES Innovative Smart Grid Technologies, Europe. IEEE, 2014, pp. 1–6.

[62] K. Ogunyanda, A. Familua, T. Swart, H. Ferreira, L. Cheng, and T. Shongwe, “Evaluation and implementation of cyclic permutation coding for power line communications,” in 2014 IEEE 6th International Conference on Adaptive Science & Technology (ICAST). IEEE, 2014, pp. 1–7.

[63] S. Jordaan, P. A. J. van Rensburg, A. S. De Beer, H. C. Ferreira, and A. H. Vinck, “A preliminary investigation of the UHF properties of LV cable for WiFi over power line communications,” in Power Line Communications and its Applications (ISPLC), 2015 International Symposium on. IEEE, 2015, pp. 35–40.

[64] A. de Beer, F. Igboamalu, A. Sheri, H. Ferreira, and A. H. Vinck, “Contactless power line communications at 2.45 GHz,” in 2016 International Symposium on Power Line Communications and its Applications (ISPLC). IEEE, 2016, pp. 42–45.