## **DAFTAR PUSTAKA**

- [1] M. K. dan Informatika, "Peraturan menteri kominfo nomor: 07/p/m.kominfo/3/2007," March 2007.
- [2] ITU-R, "Frequency and network planning aspects of dvb-t2," ITU-R, Geneva, Tech. Rep., March 2015.
- [3] M. K. dan Informatika, "Peraturan menteri komunikasi dan informatika nomor: 05/per/m.kominfo/2/2012," February 2012.
- [4] ETSI, Digital Video Broadcasting (DVB); Implementation guidelines for a second generation digital terrestrial television broadcasting system (DVB-T2), 1st ed., August 2012.
- [5] —, Digital Video Broadcasting (DVB); Frame structure channel coding and modulation for a second generation digital terrestrial television broadcasting system (DVB-T2), 1st ed., ETSI, July 2015.
- [6] R. G. Gallager, "Low-density parity-check codes," in *IRE Trans. on Info. The-ory, vol. IT-8*, January 1962, pp. 21–28.
- [7] C. Zhang, Z. Wang, and X. You, "Efficient decoder architecture for single block-row quasi-cyclic ldpc codes," *Circuits and Systems II: Express Briefs*, *IEEE Transactions on*, vol. 61, pp. 793–797, October 2014.
- [8] R. G. Gallager, "Good error-correcting codes based on very sparse matrices," in *IEEE Trans. Znfo. Theory, vol. 45, no. 2*, March 1999, pp. 399–431.
- [9] M. C. Davey and D. J. MacKay, "Low density parity check codes over gf(q)," in *ZEEE Com. Letters, vol. 2, no. 6*, June 1998.
- [10] R. G. Gallager, "Near shannon limit performance of low density parity check codes," in *Electron. Lett.*, vol. 33, no. 6, March 1997, pp. 457–458.
- [11] R. Tanner, "A recursive approach to low complexity codes," *IEEE Transactions on Information Theory*, vol. 27, no. 5, pp. 533–547, Sep. 1981.
- [12] J. Fan and Y. Xiao, "A method of counting the number of cycles in ldpc codes," in 2006 8th international Conference on Signal Processing, vol. 3, Nov 2006.

- [13] M. Sipser and D. A. Spielman, "Expander codes," *IEEE Transactions on Information Theory*, vol. 42, no. 6, pp. 1710–1722, Nov 1996.
- [14] M. Luby, M. Mitzenmacher, A. Shokrollahi, and D. Spielman, "Improved lowdensity parity-check codes using irregular graphs," in *IEEE Trans. Inform. Theory, vol.* 47, February 2001, pp. 585–598.
- [15] F. Mattoussi, "Design and optimization of al-fec codes: the gldpc-staircase codes," Ph.D. dissertation, February 2014.
- [16] H. Jin, A. Kh, and R. McEliece, "Irregular repeat accumulate codes," 11 2000.
- [17] F. N. Hidayah and K. Anwar, "Low density generator matrix (ldgm)-based raptor codes for single carrier internet of things (sc-iot)," in 2017 International Conference on Signals and Systems (ICSigSys), May 2017, pp. 24–28.
- [18] Xiao-Yu Hu, E. Eleftheriou, and D. Arnold, "Progressive edge-growth tanner graphs," in *GLOBECOM'01. IEEE Global Telecommunications Conference* (*Cat. No.01CH37270*), vol. 2, Nov 2001, pp. 995–1001 vol.2.
- [19] Xiao-Yu Hu, E. Eleftheriou, and D. M. Arnold, "Regular and irregular progressive edge-growth tanner graphs," *IEEE Transactions on Information Theory*, vol. 51, no. 1, pp. 386–398, Jan 2005.
- [20] S. Nagul, "A review on 5g modulation schemes and their comparisons for future wireless communications," in 2018 Conference on Signal Processing And Communication Engineering Systems (SPACES), Jan 2018, pp. 72–76.
- [21] H. Harada and R. Prasad, Simulation and Software Radio for Mobile Communications. Norwood, MA, USA: Artech House, Inc., January 2002.
- [22] B. Ahmed and M. Matin, *Coding for MIMO-OFDM in Future Wireless Systems*, May 2015.
- [23] R. Gustafsson and A. Mohammed, "Simulation of Wireless Fading Channels," Department of Telecommunications and Signal Processing Blekinge Institute of Technology, Tech. Rep., February 2003.
- [24] C. Wang, J. Bian, J. Sun, W. Zhang, and M. Zhang, "A survey of 5g channel measurements and models," *IEEE Communications Surveys Tutorials*, vol. 20, no. 4, pp. 3142–3168, Fourthquarter 2018.

- [25] A. Goldsmith, Wireless Communications. Cambridge University Press, June 2005.
- [26] J. Abdoli, M. Jia, and J. Ma, "Filtered ofdm: A new waveform for future wireless systems," in 2015 IEEE 16th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), June 2015, pp. 66–70.
- [27] N. Michailow, M. Matthé, I. S. Gaspar, A. N. Caldevilla, L. L. Mendes, A. Festag, and G. Fettweis, "Generalized frequency division multiplexing for 5th generation cellular networks," *IEEE Transactions on Communications*, vol. 62, no. 9, pp. 3045–3061, Sep. 2014.
- [28] P. Guan, D. Wu, T. Tian, J. Zhou, X. Zhang, L. Gu, A. Benjebbour, M. Iwabuchi, and Y. Kishiyama, "5g field trials: Ofdm-based waveforms and mixed numerologies," *IEEE Journal on Selected Areas in Communications*, vol. 35, no. 6, pp. 1234–1243, June 2017.
- [29] L. Marijanovic, S. Schwarz, and M. Rupp, "Optimal numerology in ofdm systems based on imperfect channel knowledge," 2018 IEEE 87th Vehicular Technology Conference (VTC Spring), pp. 1–5, 2018.
- [30] M. Hasan and E. Hossain, "Distributed resource allocation in 5g cellular networks," 2014.
- [31] S. Abdulatif, "EXIT Charts for LDPC Codes," Institute of Telecommunications, University of Stuttgart, Germany, Feb 2019, webdemo. [Online]. Available: http://webdemo.inue.uni-stuttgart.de
- [32] G. Breed, "Bit Error Rate : Fundamental Concepts and Measurement Issues," *High Frequency Electronics*, pp. 46–48, January 2003.
- [33] L. Hanzo, W. Webb, and T. Keller, "Single- and multi-carrier quadrature amplitude modulation: Principles and applications for personal communications, watm and broadcasting," April 2000.
- [34] D. Fitriyani, K. Anwar, and D. M. Saputri, "Study on radio frequency profile of indonesia digital television dvb-t2 for urban areas," in *Pending*, March 2019, pp. –.
- [35] F. A. Newagy and S. H. Elramly, "Novel technique for scaling down ldpc code lengths in dvb-t2 standard," in 2012 International Conference on Telecommunications and Multimedia (TEMU), July 2012, pp. 180–184.

[36] S. ten Brink, "Convergence behavior of iteratively decoded parallel concatenated codes," *IEEE Transactions on Communications*, vol. 49, no. 10, pp. 1727–1737, Oct 2001.