

Bibliography

- [1] H. Yang, "A road to future broadband wireless access: MIMO-OFDM-based air interface," *Bell Labs Syst. Tech. J.*, vol. 1, pp. 41-59, Autumn 1996.
- [2] S. M. Alamouti, "A simple transmit diversity technique for wireless communication," *IEEE JSAC*, vol. 16, no. 8, pp. 1451–1458, Oct. 1998.
- [3] G. J. Foschini, "Layered space-time architecture for wireless communication in a fading environment when using multiple antennas," *Bell Labs Syst. Tech. J.*, vol. 1, pp. 41-59, Autumn 1996.
- [4] C. L. Ho, J. Y. Wu, and T. S. Lee, "Group-wise V-BLAST detection in multiuser space-time dual-signaling wireless systems," submitted to *IEEE Trans. Wireless Commun.*
- [5] I.-M. Kim and V. Tarokh, "Variable-rate space-time block codes in M-ary PSK systems," *IEEE JSAC*, vol. 21, no. 3, pp. 362 -373, Apr. 2003.
- [6] R. van Nee and R. Prasad, *OFDM for wireless multimedia communications*, Boston: Artech House, 2000.
- [7] 3rd Generation Partnership Project (3GPP), Technical Specification.
- [8] S. Haykin, *Communication Systems*, 4th ed., New York: John Wiley & Sons, 2001.
- [9] B. Sklar, *Digital Communications*, 2nd ed., Upper Saddle River, NJ: Prentice-Hall, 2001.
- [10] "Wireless LAN medium access control (MAC) and physical layer (PHY) specifications: High-speed physical layer in the 5 GHZ Band," Sept. 1999, *IEEE Std. 802.11a*.
- [11] A. N. Mody and G. L. Stuber, "Synchronization for MIMO OFDM systems," School of Electrical and Computer Engineering, Georgia Institute of Technology, Atlanta, GA 30332.

- [12] Y. Hara and Y. Kamio, "Initial synchronization techniques for antenna arrays in the presence of interference signals," *IEEE Vehicular Technology Conference*, vol. 4, pp. 1953-1957, Sept. 2002.
- [13] W. C. Lin, "FPGA and DSP realization of W-CDMA channel decoder and space-time RAKE receiver," NCTU, M.S., Thesis, June 2002.
- [14] G. J. Foschini and M. J. Gans, "On limits of wireless communications in a fading environment when using multiple antennas," *Wireless Personal Commun.*, vol. 6, no. 3, pp. 311-335, Mar. 1998.
- [15] A. F. Naguib and R. Calderbank, "Space-time coding and signal processing for high data rate wireless communications," *Wirel. Commun. Mob. Comput.*, pp. 13-34, 2001.
- [16] A. J. Paulraj and C. B. Papadias, "Space-time processing for wireless communications," *IEEE Signal Processing Magazine*, vol. 14, pp. 49-83, Nov. 1997.
- [17] V. Tarokh, H. Jafarkhani, and A. R. Calderbank, "Space-time block coding for wireless communications: Performance results," *IEEE J. Select. Areas Commun.*, vol. 17, no. 3, pp. 451-460, Mar. 1999.
- [18] V. Tarokh, N. Seshadri, and A. R. Calderbank, "Space-time codes for high data rate wireless communication: Performance analysis and code construction," *IEEE Trans. Inform. Theory*, vol. 44, no. 2, pp. 744-765, Mar. 1998.
- [19] V. Tarokh, H. Jafarkhani, and A. R. Calderbank, "Space-time block codes from orthogonal designs," *IEEE Trans. Inform. Theory*, vol. 45, no. 5, pp. 1456-1467, July 1999.
- [20] M. Sellathurai and S. Haykin, "A nonlinear iterative beamforming technique for wireless communications," in *33rd Asilomar Conf. on Signals, Syst., and Comput.*, vol. 2, pp. 957-961, Pacific Grove, CA, Oct. 1999.
- [21] A. F. Naguib, N. Seshadri, and A. R. Calderbank, "Applications of space-time block codes and interference suppression for high capacity and high data rate wireless systems," in *32nd Asilomar Conf. on Signals, Syst., and Comput.*, vol. 2, pp. 1803-1809, 1998.
- [22] D. Gesbert, H. Bölcskei, D. A. Gore, and A. Paulraj, "Outdoor MIMO wireless channels: Models and performance prediction," *IEEE Trans. on Comm.*, vol. 50, no. 12, Dec. 2002.

- [23] V. Erceg, P. Soma, D. S. Baum, and A. J. Paulraj, "Capacity obtained from multiple-input multiple-output channel measurements in fixed wireless environments at 2.5 GHz," *Communications, ICC 2002. IEEE International Conference on*, vol. 1, pp. 396-400, May 2002.
- [24] M. Rupp, "On the influence of uncertainties in MIMO decoding algorithms," *Signals, Systems and Computers, 2002. Conference Record of the Thirty-Sixth Asilomar Conference on*, vol. 1, pp. 570-574, Nov. 2002.
- [25] T. F. Chao, "Adaptive transmission mode selection in MIMO systems," NCTU, M.S., Thesis, June 2004.
- [26] D. Lashin and B. Cisneros, "System explorer MP3C reference guide," Aptix Inc., August 1999.
- [27] J. Bhasker, *A VHDL Primer*, Englewood Cliffs, NJ: Prentice-Hall, 1998.
- [28] 林傳生, *使用VHDL 電路設計語言之數位電路設計*, 儒林, 2000.
- [29] 國家晶片系統設計中心, *Xilinx (PC)*, July 2004.
- [30] 國家晶片系統設計中心, *VHDL*, July 2004.
- [31] 鄭信源, *Verilog 硬體描述語言數位電路設計實務*, 儒林, 2000.
- [32] Taxes Instrument, "TMS320C6000 peripherals reference guide," spru190d, February 2001.
- [33] Taxes Instrument, "TMS320C6701 floating-point digital signal processing," sprs067e, May 2001.
- [34] Taxes Instrument, "TMS320C6000 programmer's guide," spru198g, Aug. 2002.
- [35] Taxes Instrument, "Code composer studio getting started guide," spru509, May 2001.
- [36] Cypress Semiconductor Corporation, "CY768013 / EZ-USB FX2 USB micro-controller / High-speed USB peripheral controller," June 2002.
- [37] R. Chassaing, *DSP Applications Using C and the TMS320C6x DSK*, New York: John Wiley & Sons, 2002.
- [38] S. Sun, T. T. Tjhung, and P. H. W. Fung, "Soft decision-based iterative interference cancellation (IIC) in group-wise STBC (G-STBC) MIMO systems," *VTC 2003-Spring*, Jeju, Korea, vol. 2, pp. 984-988, April 2003.

[39] Taxes Instrument, “TMS320C6000 peripherals reference guide-manual update sheet for SPRU190D,” sprz122c, Jan. 2003.

[40] Taxes Instrument, “TMS320C6000 optimizing compiler user’s guide,” spru187k, Oct. 2002.

