



- [4] J. Wang and L. B. Milstein , “ CDMA overlay situations for microcellular mobile communications , ” IEEE Trans. Commun. , vol. 43 , pp. 603 – 614 , Feb. 1995.
- [5] S. Kondo and L. B. Milstein , “ Performance of multicarrier DS-CDMA systems , ” IEEE Trans. Commun. , vol. 44 , pp. 238 – 246 , Feb. 1996.
- [6] D. Cassioli , M. Win , and F. Molisch , “ The ultra-wide bandwidth indoor channel: From statistical model to simulations , ” IEEE J. Select. Areas Commun. , vol. 20 , pp. 1247 – 1257 , Aug. 2002.
- [7] W. Xu and L. B. Milstein , “ On the performance of multicarrier RAKE systems , ” in Proc. IEEE GLOBECOM , Nov. 1997 , pp. 295 – 299.
- [8] D. Lee and L. B. Milstein , “ Comparison of multicarrier DS-CDMA broadcast systems in a multipath fading channels , ” IEEE Trans. Commun. , vol. 47 , pp. 1897 – 1904 , Dec. 1999.
- [9] E. Sourour and M. Nakagawa , “ Performance of orthogonal multicarrier CDMA in a multipath fading channel , ” IEEE Trans. Commun. , vol. 44 , pp. 356 – 367 , Mar. 1996.
- [10] R. Jean-Marc Cramer, Moe Z. Win, and Robert A. Scholtz, “ Evaluation of the Multipath Characteristics of the Impulse Radio Channel,” The Ninth IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, Vol. 2, 8-11 Sept. 1998.
- [11] Moe Z. Win, and Robert A. Scholtz, “ On the Energy Capture of Ultrawide Bandwidth Signals in Dense Multipath Environments,” IEEE Commun. Lett., Vol. 2, No. 9, pp. 245-247. Sep. 1998.
- [12] Eric A. Homier, and Robert A. Scholtz, “ Rapid Acquisition of Ultra-Wideband Signals in the Dense Multipath Channel,” Digest of Papers of IEEE Conference on Ultra Wideband Systems and Technologies, 21-23 May 2002.
- [13] Moe Z. Win, “ Spectral Density of Random UWB Signals,” IEEE Commun. Lett., Vol. 6, No. 12, pp. 526-528, Dec. 2002.
- [14] Joon-Yong Lee, and R. A. Scholtz, “ Ranging in a Dense Multipath Environment Using an UWB radio Link,” IEEE Trans. on Selected Areas in Commun., Vol. 20, No. 9, pp. 1677-1683, Dec. 2002.
- [15] Yi-Ling Chao, and R. A. Scholtz, “ Optimal and Suboptimal Receivers for Ultra-Wideband Transmitted Reference Systems,” IEEE Global Telecommunications Conference, GLOBECOM '03, Vol. 2, 1-5 Dec. 2003.
- [16] Chee-Cheon Chui, and R. A. Scholtz, “ Optimizing Tracking Loops for UWB Monocycles,” IEEE Global Telecommunications Conference, GLOBECOM '03, Vol. 1, 1-5 Dec. 2003.
- [17] G. Roberto Aiello and Gerald D. Rogerson, “ Ultra-Wideband Wireless Systems,” IEEE Microwave Magazine, pp. 66-74, July 2003.
- [18] G. Roberto Aiello, Minnie Ho and Jim Lovette, “ Ultra-Wideband: An Emerging Technology for Wireless Communications,” <http://www.osee.net>.
- [19] D. Porcino, and W. Hirt, “ Ultra-Wideband Radio Technology: Potential and Challenges Ahead,” IEEE Communications Magazine, July 2003, pp. 66-74.
- [20] Moe Z. Win, and Robert A. Scholtz, “ Impulse Radio : How It Works,” IEEE Commun. Lett., Vol. 2, No. 1, pp. 36-38, Jan. 1998.
- [21] Moe Z. Win, and Robert A. Scholtz, “ Ultra-wideband Time Hopping Spread-Spectrum Impulse Radio for Wireless Multiple-Access Communications,” IEEE Trans. Commun., Vol. 48, pp. 679-689, Apr. 2000.
- [22] Moe Z. Win, and Robert A. Scholtz, “ Ultra-Wide Bandwidth Signal Propagation for Indoor Wireless Communications,” Communications, 1997. ICC 97 Montreal, 'Towards the Knowledge Millennium'. 1997 IEEE International Conference on Communications, Volume: 1 , 8-12 June 1997.
- [23] Moe Z. Win, and Robert A. Scholtz, “ Characterization of Ultra-Wide Bandwidth Wireless Indoor Channels: A Communication-Theoretic View,” IEEE J. on Selected Areas in Commun., Vol. 20, No. 9, pp. 1613-1627, Dec. 2002.
- [24] Moe Z. Win, F. Ramirez-Mireles, and Robert A. Scholtz, “ Ultra-Wide Bandwidth (UWB) Signal Propagation for Outdoor Wireless Communications,” Vehicular Technology Conference, 1997 IEEE, 47th, Vol. 1, pp. 4-7 May 1997.
- [25] R. Jean-Marc Cramer, Moe Z. Win, and Robert A. Scholtz, “ Evaluation of an Ultra-Wide-Band Propagation Channel,” IEEE Trans. on Antennas and Propagation, Vol. 50, No. 5, pp. 561-570, May 2002.
- [26] R. Jean-Marc Cramer, and Moe Z. Win, “ On the Analysis of UWB Communication Channels,” IEEE Proceedings of MILCOM 1999, Vol. 2, 31 Oct. - 3 Nov. 1999.
- [27] F. Ramirez-Mireles, and Robert A. Scholtz, “ Multiple-Access with Time Hopping and Block Waveform PPM Modulation,” Conference Record of IEEE International Conference on Commun., Vol. 2, 7-11 June 1998.
- [28] Win, F. Ramirez-Mireles, and Robert A. Scholtz, “ System Performance Analysis of Impulse Radio Modulation,” IEEE Radio and Wireless Conference, 1998, 9-12 Aug. 1998.
- [29] R. Jean-Marc Cramer, Moe Z. Win, and Robert A. Scholtz, “ Impulse Radio Multipath Characteristics and Diversity Reception,” Conference Record of IEEE International Conference on Communications, Vol. 3, 7-11 June 1998.
- [30] Dajana Cassioli, et. al., “ Effects of Spreading Bandwidth on the Performance of UWB Rake Receivers,” IEEE International Conference on Commun., Volume: 5, 11-15 May 2003.
- [31] Yoshiyuki Ishiyama, and Tomoaki Ohtsuki, “ Performance Comparison of UWB-IR Using Rake Receiver in UWB Channel Models,” Joint

- with Conference on Ultra-wideband Systems and Technologies. International Workshop on Ultra Wideband Systems, 18-21 May 2004.
- [32] Wipawee Siriwongpairat, Masoud Olfat, and K. J. Ray Liu, " On the Performance Evaluation of TH and DS UWB MIMO Systems, " IEEE Wireless Communications and Networking Conference, Vol. 3, 21-25 March 2004.
- [33] Yi-Ling Chao, and R. A. Scholtz, " Multiple Access Performance of Ultra-wideband Transmitted Reference Systems in Multipath Environments, " IEEE Wireless Communications and Networking Conference, Vol. 3, 21-25 March 2004.
- [34] Joy long-Zong Chen, " Combining Multi-Carrier Systems with Ultra-wideband over Fading Environments, " Proceeding of 2007 Asia-Pacific Commun. Conferences, Bangkok Thailand, Oct. 18-20 2007. (Accepted) [35] R. D. Wilson, and R. A. Scholtz, " On the Dependence of UWB Impulse Radio Link Performance on Channel Statistics, " IEEE International Conference on Communications, Vol. 6, 20-24 June 2004.
- [36] Jiangzhou Wang, and L. B. Milstein, " Multicarrier CDMA Overlay for Ultra-Wideband Communications, " IEEE Trans. on Commun., Vol. 52, No. 10, pp. 1664-1669, Jan. 2004.
- [37] R. A. Scholtz, and Y. -Ling, " Optimal and Suboptimal Receivers for Ultra-wideband Transmitted Reference System, " IEEE Globalcom International Conference, pp. 759-763, 2003.
- [38] R. V. SNYDER, " Practical Aspects of Microwave Filter Development " ,RS MICROWAVE BUTLER, NJ MIKON 2006, May 23, 2006