

# 1 Book

1. K. M. Chugg, A. Anastasopoulos, and X. Chen, *Iterative Detection: Adaptivity, Complexity Reduction, and Applications*. Kluwer Academic Publishers, 2001.

# 2 Refereed Journals

## Full articles

1. A. Anastasopoulos, K. M. Chugg, G. Colavolpe, G. Ferrari, and R. Raheli, "Iterative detection for channels with memory," *Proc. IEEE*, vol. 95, no. 6, pp. 1272–1294, June 2007.
2. I. Motedayen-Aval, A. Krishnamoorthy, and A. Anastasopoulos, "Optimal joint detection/estimation in fading channels with polynomial complexity," *IEEE Trans. Information Theory*, vol. 53, no. 1, pp. 209–223, Jan. 2007.
3. C.-P. Lim, J. L. Volakis, K. Sertel, R. W. Kindt, and A. Anastasopoulos, "Indoor propagation models based on rigorous methods for site-specific multipath environments," *IEEE Trans. Antennas and Prop.*, vol. 54, no. 6, pp. 1718–1725, June 2006.
4. C.-H. Hsu and A. Anastasopoulos, "Design and analysis of joint data detection and frequency/phase estimation algorithms," *IEEE J. Select. Areas Commun.*, vol. 23, pp. 1707–1717, Sept. 2005.
5. A. Krishnamoorthy and A. Anastasopoulos, "Code and receiver design for the non-coherent fast fading channel," *IEEE J. Select. Areas Commun.*, vol. 23, pp. 1769–1778, Sept. 2005.
6. K. Fu and A. Anastasopoulos, "Analysis and design of LDPC codes for time-selective complex-fading channels," *IEEE Trans. Wireless Communications*, vol. 4, pp. 1175–1185, May 2005.
7. R. Nuriyev and A. Anastasopoulos, "Capacity and coding for the block-independent noncoherent AWGN channel," *IEEE Trans. Information Theory*, vol. 51, pp. 866–883, Mar. 2005.
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11. I. Motedayen and A. Anastasopoulos, "Polynomial-complexity noncoherent symbol-by-symbol detection with application to adaptive iterative decoding of turbo-like codes," *IEEE Trans. Communications*, vol. 51, no. 2, pp. 197–207, Feb. 2003.
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13. —, "Adaptive Soft-Input Soft-Output algorithms for iterative detection with parametric uncertainty," *IEEE Trans. Communications*, vol. 48, no. 10, pp. 1638–1649, Oct. 2000.
14. A. Anastasopoulos and A. Polydoros, "Adaptive soft-decision algorithms for mobile fading channels," *European Trans. Telecommun.*, vol. 9, no. 2, pp. 183–190, March/April 1998.

## Letters

1. C.-P. Lim, J. L. Volakis, and A. Anastasopoulos, "BER calculation for multiple-antenna systems in Ricean fading channels," *IEEE Trans. Veh. Tech.*, vol. 56, no. 4, pp. 1862–1866, July 2007.
2. A. Anastasopoulos, "Sequence error probability lower bounds for joint detection and estimation," *IEEE Trans. Communications*, vol. 51, no. 3, pp. 347–351, Mar. 2003.
3. K. M. Chugg and A. Anastasopoulos, "On symbol error probability bounds for ISI-like channels," *IEEE Trans. Communications*, vol. 49, no. 10, pp. 1704–1709, Oct. 2001.

## Submitted for Publication

1. C.-H. Hsu and A. Anastasopoulos, "Iterative decoding performance bounds for LDPC codes on noisy channels," *IEEE Trans. Information Theory*, pp. –, Jan. 2007, (Submitted).
2. —, "Capacity-achieving LDPC codes through puncturing" *IEEE Trans. Information Theory*, pp. –, Dec. 2006, (Submitted).
3. —, "Capacity-achieving codes for noisy channels with bounded graphical complexity and maximum likelihood decoding," *IEEE Trans. Information Theory*, pp. –, Feb. 2006, (Submitted).
4. L. Weng, S. Pradhan, and A. Anastasopoulos, "Error exponent regions for Gaussian broadcast and multiple access channels," *IEEE Trans. Information Theory*, pp. –, Dec. 2005, (Submitted).
5. L. Weng, A. Anastasopoulos, and S. Pradhan, "Diversity gain regions for MIMO fading broadcast and multiple access channels," *IEEE Trans. Information Theory*, pp. –, Apr. 2005, (Submitted).
6. S. Y. Chang, W. E. Stark, and A. Anastasopoulos, "Energy-delay analysis of MAC protocols in wireless networks," *IEEE Trans. Wireless Communications*, pp. –, June 2006, (Submitted).

## 3 Refereed Conferences

1. K. Fu and A. Anastasopoulos, "Stopping set enumerator approximations for finite-length protograph LDPC codes," in *Proc. International Symposium on Information Theory*, Nice, France, June 2007, pp. –.
2. C.-H. Hsu and A. Anastasopoulos, "Asymptotic weight distributions of irregular repeat-accumulate codes," in *Proc. Globecom Conf.*, St. Louis, MO, Nov. 2005, pp. 1147–1151.
3. —, "Capacity-achieving codes with bounded graphical complexity on noisy channels," in *Proc. Allerton Conf. Commun., Control, Comp.*, Allerton House, IL, Sept. 2005, pp. –, can also be downloaded from arXiv (<http://arxiv.org/abs/cs/0509062>).
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