

Bibliography

- [Bar79] D. K. Barton, "Radar System Analysis", Dedham, MA: Artech House
- [Bar91] Y. Bar-Shalom, F. Palmieri, A. Kumar, and H. M. Shertukde, "Analysis of wide-band cross-correlation for target detection and time delay estimation", *Proceedings ICASSP*, vol. 2, pp. 1293-1296, May 1991
- [Bar93] Y. Bar-Shalom, F. Palmieri, A. Kumar, and H. M. Shertukde, "Analysis of wide-band cross-correlation for time delay estimation", *IEEE Transaction on Signal processing*, vol. 41, no. 1, pp. 385-387, January 1993.
- [Bes98] O. Besson, "Estimation en traitement du signal", course notes, Ecole Nationale Supérieure d'Ingénieurs en Constructions Aéronautiques (ENSICA).
- [Bli87] H. J. Blinichikoff and A. I. Zverev, "Filtering in the Time and Frequency Domains", second edition, Wiley and Son, 1987
- [Car73] G. C. Carter, A. H. Nutall, and P. G. Cable, "The smoothed coherence transform", *Proc. IEEE (Lett.)*, vol. 61, pp. 1497-1498, Oct 1973
- [Car81] G. C. Carter (Guest Editor), *IEEE Transaction on Acoustics, Speech, and Signal Processing*, vol. ASSP-29, no.3, part II, June 1981.
- [Car87] G. C. Carter, "Coherence and Time delay Estimation", *Proceedings IEEE*, vol. 75, pp. 236-255, Feb. 1987.

- [Cou01] L. W. Couch II, "Digital and analog communication systems", 6th edition, Prentice Hall, 2001.
- [Dic45] R. H. Dicke, "Object Detection System", US Patent no.2,624,876, January 6, 1953
- [Dix84] R. C. Dixon, "Spread Spectrum Systems", second edition, Wiley-Interscience, 1984
- [Eck52] C. Eckart, "Optimal rectifier systems for the detection of steady signals", University of California, Scripps Institute of Oceanographie, Marine Physical Lab. Rep SIO 12692, SO Ref 52-11, 1952
- [Gab46] D. Gabor, "Theory of Communication", *J. IEE*, part III, vol. 93, pp. 429-441, 1946
- [Geo] S. F. George, "Effectiveness of Crosscorrelation Detectors", *Information and Statistical Theory*, Naval Research Laboratory, Washington, District of Columbia, pp. 109-118
- [Han73] E. J. Hannan and P. J. Thomson, "Estimation group delay", *Biometrika*, vol. 60, pp. 241-253, 1973
- [Han75] W. R. Hahn, "Optimum signal processing for passive sonar range and bearing estimation", *JASA*, vol 58, pp 201-207, July 1975
- [Has81] J. C. Hassab, R. E. Boucher, "Performance of the Generalized Cross Correlator in the Presence of a Strong Spectral Peak in the Signal", *IEEE Transactions on Acoustics, Speech, and Signal Processing*, vol. 29, no. 3, pp. 549-555, June 1981

- [Hof97] B. Hofmann-Wellenhof, H. Lichtenegger, J. Collins, "GPS: Theory and Practice", fourth edition, Springer, 1997.
- [Ian82] J. P. Ianiello, "Time delay estimation via cross-correlation in the presence of large estimation errors", *IEEE Transactions on Acoustics, Speech, and Signal Processing*, vol. ASSP-30, pp. 998-1003, December 1982.
- [Ian83] J. P. Ianiello, E. Weinstein, and A. J. Weiss, "Comparison of the Ziv-Zakai lower bound on time delay estimation with Correlator performance", *Proceedings ICASSP*, vol. 2, pp. 875-878, April 1983
- [Kap96] E. D. Kaplan, "Understanding GPS, Principles and Applications", Artech, Boston, 1996, pp.190-192
- [Ken84] M. Kenyon, "Cross-correlation Estimation for Time Delay Measurement", *Conference on Measurement Instrumentation and Digital Technology*, pp. 97-101, 1984.
- [Kin99] P. M. Kintner, "Global Positioning System – Theory and Design", School of Electrical Engineering, Cornell University, 1999
- [Kna76] C. H. Knapp and G. C. Carter, "The Generalized Correlation Method for Estimation of Time Delay," *IEEE Transactions on Acoustics, Speech, and Signal Processing*, vol. 24, no. 4, pp. 320-327, August 1976.
- [Kol89] W. F. Kolbe, B. Turko, "Evaluation of fast voltage discriminators in the picosecond time range", *IEEE Transactions on Nuclear Science*, vol. 36, no. 1, February 1989, pp. 412-415

- [Kum93] A. Kumar and Y. Bar-Shalom, "Time-Domain Analysis of Cross-Correlation for Time Delay Estimation with an Autocorrelated Signal", *IEEE Transaction on Signal Processing*, SP-41(4):1664-1668, April 1993
- [Lat86] R. A LaTourette, "Efficient Recursive batch time delay difference estimation in the presence of target motion", *NUSC Technical Report 7793*, New London, CT, July 1986.
- [Lep93] A. Lepek, Fl. Walls, "Cross correlation analysis improves time domain measurements", *Proceedings of the 1993 IEEE International Frequency Control Symposium*, pp.312-20, Oct. 1993.
- [Lev99] J. Levine, "Introduction to time and frequency metrology", *Review of Scientific Instruments*, vol 70, no. 6, June 1999
- [Lin56] I. W. Lindner and P. Swerling, "Performance of the double threshold radar receiver in the presence of interference", *ASTIA Doc. AD-11366*, May 1956
- [Man60] R. Manasse, "Summary of Maximum Theoretical Accuracy of Radar Measurements", *MITRE Tech. series Report 2*
- [Mar60] J. I. Marcum and P. Swerling, "Studies of target detection by pulse radar", *IRE Trans. Information Tehory*, vol. IT-6, pp. 59-308, April 1960
- [Mid53] D. Middleton, "Statistical Criteria for the Detection of Pulsed-Carriers in Noise", *Journal of Applied Physics*, vol. 24, pp. 371-391, April 1953
- [Mor79] R. Morris, "The origin of radar", Greenwood Press, 1979
- [Nah69] N. E. Nahi, "Estimation Theory and Applications", Wiley and Sons, 1969

- [Rap99] T. S. Rappaport, “Wireless Communications: Principles and Practice”, Prentice Hall, 1999
- [Rot71] P. R Roth, “Effective measurements using digital signal analysis”, *IEEE Spectrum*, vol. 8, pp.469-481, 1971
- [Rud53] P. Rudnick, “The detection of Weak Signals by Correlation Methods”, *Journal of Applied Physics*, vol 24, no. 2, February 1953, pp. 128-131
- [Sch56] M. Schwartz, “A coincidence procedure for signal detection”, *IRE Transaction on Information Theory*, vol IT-2, pp. 135-139, December 1956.
- [She90] H. M. Shertukde, Y. bar-Shalom, “Use of wide-band cross correlation for tracking targets in a low SNR environment”, *Proceedings IEEE International Conference System Engineering*, August 1990.
- [Sko80] M. I. Skolnik, “Introduction to Radar Systems”, second edition, McGraw-Hill, 1980.
- [Slep54] D. Slepian, “Estimation of Signal Parameters in the Presence of Noise”, *Transaction of the I.R.E Professional Group on Information*, vol. 3, pp. 68-89, March 1954
- [Swe60] P. Swerling, “Probability of detection of Fluctuating targets”, *IRE Trans.*, vol. IT-6, pp 269-308, April 1960
- [Too82] J. C. Toomay, “Radar principles for the Non-Specialist”, Lifetime learning Publications, 1982.

- [Tor74] D. J. Torrieri, "Arrival Estimation by Adaptive Thresholding", *IEEE Transactions on Aerospace and Electronic Systems*, vol 10, no. 2, March 1972, pp.178-184
- [Tur60] G. L. Turin, "An introduction to matched filters", *IRE Trans. Info. Th.*, June 1960
- [Wal71] J. F. Walker, "Performance Data for a Double-Threshold Detection Radar", *IEEE Transactions on Aerospace and Electronic Systems*, vol. 7, no. 1, January 1971, pp. 142-146
- [Wei83] E. Weinstein, A. J. Weiss, "Fundamental Limitations in Passive Time-Delay Estimation – Part I", *IEEE Transactions on Acoustics, Speech, and Signal Processing*, vol. 31, no. 2, pp. 472-485, April 1983
- [Wei84] E. Weinstein, A. J. Weiss, "Fundamental Limitations in Passive Time-Delay Estimation – Part II", *IEEE Transactions on Acoustics, Speech, and Signal Processing*, vol. 32, no. 5, pp. 1064-1077, October 1984
- [Wil88] A. B. Williams and F. J. Taylor, "Electronic Filter Design Handbook: LC, Active, and Digital Filters", second edition, McGraw-Hill, 1988
- [Woo53] P. M. Woodward, "Probability and Information Theory with Applications to Radar", chap. 6, McGraw-Hill Book Co., New York, 1953
- [Wor68] R. Worley, "Optimum Thresholds for Binary Integration", *IEEE Transactions on Information Theory*, March 1968, pp. 349-353
- [Wuu84] C. Wuu and A.E Pearson, "On Time Delay Estimation Involving Received Signals," *IEEE Transactions on Acoustics, Speech, and Signal Processing*, vol. 32, no. 4, pp. 828-835, August 1984.