References

[1] D. Stocker, J. C. Kummer, "Proof of Origin and Ownership of Watermarking", *Audio Engineering Society, Proceedings of the 26th International Conference, Audio Forensics in the Digital Age*, Denver, USA, pp. 142-145, July 7th-9th 2005.

[2] E. Gomez, P. Cano, L. de C. T. Gomes, E. Batlle, M. Bonnet, "Mixed Watermarking-Fingerprinting approach for Integrity Verification of Audio Recordings", *International Telecommunications Symposium- ITS2002*, Natal, Brazil, 2002. www.iua.upf.es/mtg/publications/its2002-egomez.pdf

[3] C. Grigoras, "Digital Audio Recording Analysis: The Electric Network Frequency (ENF) Criterion", *The International Journal of Speech Language and the Law*, vol. 12, no. 1, pp. 63-76, 2005.

[4] A. J. Cooper, "The Significance of The Serial Copying Management System (SCMS) in the Forensic Analysis of Digital Audio Recordings", *The International Journal of Speech Language and the Law*, vol. 12, no. 1, pp. 49-62, 2005.

[5] Postnote, *Science in Court*, Parliamentary Office of Science and Technology, no. 248, October 2005. www.parliament.uk/documents/upload/postpn248.pdf

[6] *Scientific Evidence*, The Crown Prosecution Service, February 2005. http://www.cps.gov.uk/legal/section13/chapter_f.html

[7] T. Owen, J. Owen, J. Lindsay, M. McDermott, "Law and the Expert Witness-The Admissibility of Recorded Evidence", *Audio Engineering Society, Proceedings of the 26th International Conference, Audio Forensics in the Digital Age*, Denver, USA, pp. 122-128, July 7th-9th, 2005.

[8] J. J. Bubbers, "Magnetic Recording", *Journal of the Audio Engineering Society*, vol. 46, no. 1/2, pp. 32-36, January/February 1998.

[9] B. Pike and K. Talbot, "Wandering in Magnetic Fields", *Studio sound*, pp. 61-67, December 1998.

[10] BS1568: Part 2, "*Specifications for magnetic tape recording equipment, Part 2*

Cassette for commercial tape records and domestic use, dimensions and characteristics", British Standards Institute, 1973.

[11] R. Berkovitz, K. Gundry, "Dolby B-Type Noise reduction System", *Audio*, September (part 1) & October (part 2) 1973, (Dolby Laboratories reprint).

[12] R. Dolby, "A 20dB Audio Noise Reduction System for Consumer Applications", *Journal of the Audio Engineering Society*, vol. 31, no. 3, pp. 98-113, March 1983.

[13] S. P. Lipshitz, "Dawn of the Digital Age", *Journal of the Audio Engineering Society*, vol. 46, no. 1/2, pp. 37-42, January/February 1998.

[14] L. Baert, L. Theunissen, G. Vergult, J. Maes, J. Arts, *Digital Audio and Compact Disc Technology*, 3rd Edition, Focal Press, 1995.

[15] R. Schiller , *Working with DAT*, Sony Broadcast and Communication, 1991.

[16] J. Watkinson, *Compression in Video and Audio (Music Technology)*, Focal Press, 1995.

[17] J. Maes, *The MiniDisc*, Focal Press, 1998.

[18] G. C. P. Lokhoff, "The Digital Compact Cassette", *Audio Engineering Society, Collected Papers on Digital Audio Bit Rate Reduction,* Editors: N. Gilchrist, C. Grewin, pp. 182-189, 1996.

[19] K. Brandenburg, "Introduction to Perceptual Coding", *Audio Engineering Society, Collected Papers on Digital Audio Bit Rate Reduction,* Editors: N. Gilchrist, C. Grewin, pp. 23-30, 1996.

[20] B. Fox, "DCC: R.I.P Part 2", *Hi-Fi News and Record Review*, pp. 68-71, April 1997.

[21] MZ-NH1, *Portable Minidisc Recorder Operating Instructions*, Sony Corp, 2004.

[22] B. Grant, "DSD and the Super CD", *Audio Media*, pp. 120-123, June 1998.

[23] J. Taylor, *DVD Demystified*, 2nd Edition, McGraw-Hill, 2001.

[24] "Police Wireless Development", *Times Newspaper*, 28th April 1936.

[25] M. J. Flockhart, Private communication, 4th May 1999.

[26] D. J. Dean, "A Home Office Tape Laboratory Service", Internal Home Office report, 15th September 1982.

[27] B. E. Koenig, "Enhancement of Forensic Audio Recordings", *Journal of the Audio Engineering Society*, vol. 36, no. 11, pp. 884-894, November 1988.

[28] G. Reid, C. Hicks, D. Betts, A. French, "The Role of Adaptive Filtering in Audio

Surveillance", *Audio Engineering Society, Proceedings of the 26th International Conference, Audio Forensics in the Digital Age*, Denver, USA, pp. 9-17, July 7th-9th 2005.

[29] C. M. Musialik, U. Hatje, "Frequency-Domain Processors for Efficient Removal of Noise and Unwanted Audio Events ", *Audio Engineering Society, Proceedings of the 26th International Conference, Audio Forensics in the Digital Age*, Denver, USA, pp. 65-77, July 7th-9th 2005.

[30] B. E. Koenig, S. M. Hoffman, H. Nakasone, S. D. Beck "Signal Convolution of Recorded Free-Field Gunshot Sounds", *Journal of the Audio Engineering Society*, vol. 46, no. 7/8, pp. 634-653, July/Aug 1998.

[31] J. C. Freytag, B. M. Brustad, "A Survey of Forensic Gunshot Investigations", *Audio Engineering Society, Proceedings of the 26th International Conference, Audio Forensics in the Digital Age*, Denver, USA, pp. 131-134, July 7th-9th 2005.

[32] R. H. Bolt, F. S. Cooper, J. L. Flanagan, J. G. McKnight, T. G. Stockam, and M. R.Weiss "Report on a technical investigation conducted for the U.S District Court for the District of Columbia by the U.S Advisory Panel on White House Tapes", *U.S Government Printing Office*, Washington, D.C. 1974.

[33] K. W. Olsen, *Watergate: The Presidential Scandal That Shook America* , University Press of Kanzas, 2003.

[34] B. E. Koenig, "Authentication of Forensic Audio Recordings", *Journal of the Audio Engineering Society*, vol. 38, no. 1/2, pp. 3-33, January/February 1990.

[35] H. Hollien, *The Acoustics Of Crime*, Plenum Press, New York, 1990.

[36] T. Owen, "Forensic Audio and Video- Theory and Applications", *Journal of the Audio Engineering Society*, vol. 36, no. 1/2, pp. 34-41, January/February 1988.

[37] W. Warriner, "A Guide To Tape Splicing: How to Falsify Evidence and Other Diversions", *High Fidelity Magazine*, pp. 48-53, August 1975.

[38] J. P. French, Private communication relating to: Regina-v-Peterson, Dorchester Crown Court, May 1998.

[39] J. P. French, Private communication relating to: Regina-v-Hastings, Rochester Crown Court, February 1996.

[40] AES27:1996, *Recommended Practice for Forensic Purposes – Managing Recorded Audio Materials Intended for Examination*, Audio Engineering Society, 1996. http://aes.org/publications/standards

[41] AES43:2000, *Standard for Forensic Purposes – Criteria for the Authentication of Analog Audio Tape recordings*, Audio Engineering Society, 2000. http://aes.org/publications/standards

[42] B. Klepper, "The authentication of tape recordings: Further Considerations", Police Applications of Speech and Tape Recording Analysis, *Proceedings of the Institute of Acoustics*, vol. 6 part 1, pp. 41-47, 1984.

[43] H. D. Ford, "The Legal aspects of Magnetic Tape Recording", *Journal of the Audio Engineering Society*, vol. 22, no. 4, pp. 226-233, April 1974.

[44] Archbold, *Criminal Pleading and Practice*, Sweet and Maxwell LTD, 4-290, p. 434, 2003.

[45] A. J. Cooper, *Continuous Time Domain Level Plots as an Aid to Forensic Audio Tape Analysis*, Internal Training Document, Metropolitan Police Service, Department of Information, Operations Technical Support Unit, Audio Laboratory, TTS-REP-8006 issue 1, 1999.

[46] H. Ford, "The Noise Jungle", *Studio Sound*, pp. 26-30, August 1977.

[47] D. J. Dean, *The relevance of replay transients in the forensic examination of analogue tape recordings*, Police Scientific Development Branch, Home Office, Science and Technology Group, publication 16/91.

[48] B. E. Keonig and B. A. Kohus, "Measurement of recorder speed changes in Authenticity examinations", *Crime Laboratory Digest*, vol. 14, no. 4, pp. 139-152, October 1987.

[49] J. G. McKnight, M. R. Weiss, "Flutter Analysis for Identifying Tape Recorders", *Journal of the Audio Engineering Society*, Vol. 24 Number 9, pp. 728-734, November 1976.

[50] D. R. Begault, B. M. Brustad, A. M. Stanley, "Tape Analysis and Authentication Using Multi-Track Recorders", *Audio Engineering Society, Proceedings of the 26th International Conference, Audio Forensics in the Digital Age*, Denver, USA, pp. 115-121, July 7th-9th 2005.

[51] D. J. Dean, *The Use of Ferrofluids in the Forensic Examination of Magnetic recordings*, Scientific Research and Development Branch, Publication 15/89, Crown Copyright 1989.

[52] R. M. Grechishkin, M.Yu. Goosev, S. E. Ilyashenko, N. S Neustroev, "High Resolution Sensitive Magneto-Optic Ferrite-Garnet Films with Planar Anisotropy", *Journal of Magnetism and Magnetic Materials*, no. 157/158, pp. 305-306, 1996.

[53] D. Boss, S. Gfroerer, N. Neoustroev, "A New Tool for the Visualisation of Magnetic Features on Audiotapes", *The International Journal of Speech Language and the Law*, Forensic Linguistics, vol. 10, no. 2, pp. 255-276, 2003.

[54] J. P. French, "Developments in Forensic speaker Identification", *Institute of Acoustics*, Acoustics Bulletin, vol. 18, no. 5, pp. 13-16, September-October 1993.

[55] A. J. Presty, *A New Approach to Sound Spectography*, Voiceprint Laboratories Corporation, Somerville New Jersey.

[56] CSL Computerised Speech Lab, Kay Elemetrics Corp. www.kayelemetrics.com April 2005.

[57] R. K. Potter, G. A. Kopp and H. Green Kopp, *Visible Speech*, Dover publications Inc, New York, Dover Edition 1966. (Corrected republication of the work first published by D. Van Nostrand Company Inc 1947).

[58] L. G. Kersta, "Voice Identification", *Nature*, no. 196, pp. 1253-1257, 1962.

[59] R. H. Bolt, F. S. Cooper, E. E. David Jr, P. B. Denes, J. M. Pickett and K. N. Stevens, "Speaker Identification by speech spectrograms: A Scientists View of its Reliability for Legal Purposes", *The Journal of the Acoustical Society of America*, vol. 47, no. 2 (part 2), pp. 597-612, February 1970.

[60] O. Tosi, H. Oyer, W. Lashbrook, C. Pedrey, J. Nicol, E. Nash, "Experiment on Voice Identification", *The Journal of the Acoustical Society of America*, vol. 51, no. 6 (part2), pp. 2030-2043, June 1972.

[61] D. C. Chapman, *Visit to the USA in connection with Voice Identification*, Metropolitan Police Telecommunications, Internal report,1974.

[62] M. C. Dermott and T. Owen, *Voice Identification, The Aural/Spectrographic method*. http://www.owlinvestigations.com/forensic_articles/aural_spectrographic/fulltext.html April 2005.

[63] B. E. Koenig, "Spectrographic Voice Identification: A forensic survey", *The Journal of the Acoustical Society of America*, vol. 76, no. 6 (part2), pp. 2088-2090, June 1986.

[64] B. E. Koenig, "Spectrographic Voice Identification", *Crime Laboratory Digest* , vol. 13, no. 4, pp. 105-118, October 1986.

[65] A. Braun and H. J. Kunzel, "Is forensic speaker identification unethical or can it be unethical not to do it", *Forensic Linguistics*, The Journal of Speech Language and the Law, vol. 5, no. 7, 1998.

[66] Regina v Robb, Southwark Crown Court London, Transcription of stenography notes of V. Wason Associates, relating to the evidence of J. Baldwin. 21st November 1989 to 30th November 1989.

[67] F. Nolan, *The Phonetic Basis of Speaker Recognition*, Cambridge University Press, 1983.

[68] J. Baldwin and J. P. French, *Forensic Phonetics*, Pinter, 1990.

[69] J. P. French, "An Overview of Forensic Phonetics with Particular Reference to Speaker Identification", *Forensic Linguistics*, *The Journal of Speech Language and the Law*, vol. 1, no. 2, pp. 169-181, 1994.

[70] F. Poza, D. R. Begault, "Voice Identification and Elimination Using Aural-Spectrographic Protocols", *Audio Engineering Society, Proceedings of the 26th International Conference, Audio Forensics in the Digital Age*, Denver, USA, pp. 21-28, July 7th-9th 2005.

[71] J. R. Hassall, K. Zaveri, *Acoustics and Noise Control*, Bruel and Kjaer, 4th Edition, ch. 2, pp. 13-39, 1979.

[72] A. P. A. Broeders, "Forensic Speech and Audio Analysis Forensic Linguistics: 1998 to 2001 A Review", *13th Interpol Forensic Science Symposium*, Lyon, France, October 16-19, 2001.

[73] C. Rowden, (Editor), *Speech Processing*, McGraw Hill, ch. 1, pp. 1-22, 1991.

[74] Regina-v-Sian & Sian , Central Criminal Court, London, December 1998.

[75] C. W. Sanchez, "An Understanding and Implementation of the SCMS for Digital Audio Transmission", *Journal of the Audio Engineering Society*, vol. 42 no. 3, pp. 162-188, March 1994.

[76] IEC-60958-3:1999, *Digital audio interface – Part 3: Consumer applications*, International Electrotechnical Commission, Geneva, December 1999.

[77] A. V. Oppenheim, A. S. Willsky, S. H. Nawab, *Signals and Systems*, Prentice hall, 2nd edition, 1996.

[78] J. Watkinson, *The Art of Digital Audio*, focal Press, 3rd edition, 2001.

[79] B. A. Blesser, "Digitisation of Audio: A Comprehensive Examination of Theory, Implementation, and Current Practice", *Journal of the Audio Engineering Society*, vol. 26, no. 10, pp. 739-771, October 1978.

[80] S. Harris, "The Effects of Sampling Clock Jitter on Nyquist Sampling Analogue to Digital Converters and on Oversampling Delta-Sigma ADC's", *Journal of the Audio Engineering Society*, vol. 38, no. 7/8, pp. 537-542, July/August 1990.

[81] P. Kraniauskas, *Transforms in Signals and Systems*, Adison Wesley Publishing, ch. 1, pp. 1-41, 1992.

[82] B. Blesser, "Advanced Analog to Digital Conversion and Filtering: Data Conversion", *Audio Engineering Society, Collected Papers from the Premiere Conference, Digital Audio*, New York, pp. 37-53, 3rd-6th June, 1982.

[83] D. Bellan, A. Brandolini, A. Gandelli, "Quantization Theory – A Deterministic Approach", *IEEE Transactions on Instrumentation and Measurement*, vol. 48, no. 1, pp. 18-25, February 1999.

[84] B. Widrow, I. Kollar, Ming-Chang Liu, "Statistical Theory of Quantization", *IEEE Transactions on Instrumentation and Measurement*, vol. 45, no. 2, pp. 353-361, April 1996.

[85] B. Widrow, "Statistical Analysis of Amplitude Quantized Sampled-Data Systems", *Transactions of American Institute of Electrical Engineers pt II Applications and Industry*, vol. 79, pp. 555-568, January 1961.

[86] I. Kollar, "Statistical Theory of Quantization: Results and Limits", *Periodica Polytechnica Ser, Electrical Engineering*, vol. 28, no. 2 & 3, pp. 173-189, 1984.

[87] R. M. Gray, "Quantization Noise Spectra", *IEEE Transactions on Information Theory*, vol. 36, no. 6, pp. 1220-1244, November 1990.

[88] A. B. Sripad, D. L. Snyder, "A Necessary and Sufficient Condition for Quantization errors to be Uniform and white", *IEEE Transactions on Acoustics, Speech and Signal Processing*, vol. ASSP-25, no. 5, pp. 442-448, October 1997.

[89] R. C. Maher, "On the Nature of Granulation Noise in Uniform Quantization Systems", *Journal of the Audio Engineering Societ*y, vol. 40, no. 1/2, January/February 1992.

[90] M. O. Hawksford, "An Introduction to Digital Audio", *Audio Engineering Society, proceedings of the 10th International Conference, Images of Audio*, pp. T3-T42, London, September 1991.

[91] S. P. Lipshitz, R. A. Wannamaker, J. Vanderkooy, "Quantization and Dither: A Theoretical Survey", Journal of the Audio Engineering Society, vol. 40, no. 5, pp. 355-375, May 1992.

[92] J. R. Stuart, *Coding High Quality Digital Audio*, Presented to the Japan Audio Society On Multi-Channel Coding and Recording Methods, June 1989. http://www.meridian-audio.com/ara/jas98.htm

[93] J. Vanderkooy, S. P. Lipshitz, "Dither in Digital Audio", *Journal of the Audio Engineering Society*, vol. 35, no. 12, pp. 966-975, December 1987.

[94] R. M. Gray, "Dithered Quantizers", *IEEE Transactions on Information Theory*, vol. 39, no. 3, pp. 805-812, May 1993.

[95] J. Vanderkooy, S. P. Lipshitz, "Digital Dither: Signal Processing with Resolution Far Below the Least Significant Bit", *Audio Engineering Society, Proceedings of the 7th International Conference, Audio in Digital Times*, Toronto, Canada, pp. 87-96, May 14th-17th 1989.

[96] I. A. Glover, P. M. Grant, *Digital Communications*, Prentice Hall, ch. 11, pp. 387-388, 1998.

[97] M. W. Hauser, "Principles of Oversampling A to D Conversion", *Journal of the Audio Engineering Society*, vol. 39, no. 1/2, pp. 3-26, January/February 1991.

[98] M. Bertocco, C. Narduzzi, P. Paglierani, D. Petri, "A Noise Model fot Digitized Data", IEEE Transactions of Instrumentation and Measurement, vol. 49, no. 1, February 2000.

[99] L. J. Giacoletto, (Editor), *Electronics Designers Handbook*, McGraw Hill, 2nd Edition, 1977.

[100] N. S. Jayant, P. Noll, *Digital Coding of Waveforms Principle Applications to Speech and Video*, Prentice Hall Inc, ch. 4, pp. 163-164, 1984.

[101] M. O. Hawksford, "Techniques in Digital to Analogue Conversion", *Audio Engineering Society UK Conference, Managing the Bit Budget,* pp. 41-67, 16/17 May 1994.

[102] R. B. Randall, "Application of B & K Equipment to Frequency Analysis", Bruel and Kjaer, 2nd edition, ch. 2.4, September 1997.

[103] A. Papoulis, S. U. Pillai, *Probability, Random Variables and Stochastic Processes*, McGraw Hill, 4th edition, 2002.

[104] D. Smith, P. H. Whittman, "Design Considerations of Low Noise Audio Input Circuitry for a Professional Microphone mixer", *Audio Engineering Society, Proceedings of the 36th Convention*, April 28-May 1st 1969, pre-print 644.

[105] T. F. Darling, "Mathematical Noise Modelling and Analysis of Some Popular Preamplifier Circuit Topologies", *Journal of the Audio Engineering Society*, vol. 35, no. 1/2, pp. 15-23, January/February 1987.

[106] P. B. Denes, E. N. Pinson, *The Speech Chain: The Physics and Biology of Spoken Language*, Anchor Press, Anchor Science Study Series, ch. 7, pp. 152-153, 1973.

[107] H. K. Dunn, S.D. White, "Statistical Measurements on Conversational Speech", *Journal of the Acoustical Society of America*, vol. 11, pp. 278-288, January 1940.

[108] EA Series Standard Electret Microphone Data Sheet, S-544-0989, Knowles Electronics Inc, Illinois, USA.

[109] A. Lawrence, *Acoustics and the Built Environment*, Elsevier Applied Science, ch. 1, p. 22, 1989.

[110] C. S. Elsden, A. J. Ley, "A Digital Transfer Function Analyser based on pulse rate techniques", *Automatica*, vol. 5, pp. 51-60, 1969.

[111] L. Ljung, "On the Estimation of Transfer Functions", *Automatica*, vol. 21, no. 6, pp. 677-696, 1985.

[112] K. J. Astrom, P. Eykhoff, "System Identification – A Survey", *Automatica*, vol. 7, pp. 123-167, 1971.

[113] P. E. Wellstead, "Non-Parametric Methods of System Identification", *Automatica*, vol. 17, pp. 55-69, 1981.

[114] J. Schoukens and J. Renneboog, "Modeling the Noise Influence on the Fourier Coefficients After a Discrete Fourier Transform", *IEEE Transactions on Instrumentation and Measurement*, vol. IM-35, no. 3, pp. 278-286, September 1986.

[115] J. Antoni, P. Wagstaff, J. Henrio, " H_α-A Consistent Estimator for Frequency Response Functions with Input and Output Noise", *IEEE Transactions on Instrumentation and Measurement*, vol. 53, no. 2, pp. 457-465, April 2004.

[116] J. Schoukens, R. Pintelon, "Measurement of Frequency Response Functions in Noisy Environments", *IEEE Transactions on Instrumentation and Measurement*, vol. 39, no. 6, pp. 905-909, December 1990.

[117] X. Rong Li, *Probability, Random Signals and Statistics*, CRC Press, 1999.

[118] C. Chatfield, *The Analysis of Time Series*, Chapman & Hall/CRC, 5th edition, 1999.

[119] S. D. Stearns, R. A. David, *Signal Processing Algorithms in Matlab*, Prentice Hall, 1996.

[120] J. Kaiser and R. Hamming, "Sharpening the Response of a Symmetric Nonrecursive Filter by Multiple Use of the Same Filter*", IEEE Transactions Acoustics Speech and Signal Processing*, vol. ASSP-25, no. 5, pp. 415-422, 1977.

[121] R. Legadec, D. Weiss, R. Greutmann, W. Studer, "High Quality Analog Filters for Digital Audio", *Audio Engineering Society, 67th Convention*, New York, October 31/November 3, 1980, pre-print 1707(B-4)

[122] P. Stoica, R. L. Moses, *Introduction to Spectral Analysis*, Prentice Hall Inc, 1997.

[123] S. L. Marple Jr , *Digital Spectral Analysis with Applications*, Prentice Hall Inc, 1987.

[124] S. M. Kay , *Modern Spectral Estimation: Theory and Applications*, Prentice Hall Inc, 1988.

[125] M. H. Hayes, *Statistical Digital Signal Processing and Modeling*, Wiley, ch. 3, pp. 82-84, 1996.

[126] S. M. Kay, S. L. Marple JR, "Spectrum Analysis – A Modern Perspective", *Proceedings of the IEEE*, vol. 69, no. 11, pp. 1380-1419, November 1981.

[127] P. D. Welch, "The Use of Fast Fourier Transform for the Estimation of Power Spectra: A Method Based on Time Averaging Over Short, Modified Periodograms", *IEEE Transactions on Audio and Acoustics*, vol. AU-15, no. 2, pp.70-73, June 1967.

[128] P. D. Welch, "On the Variance of Time and Frequency Averages over Modified

Periodograms", *IEEE International Conference, Acoustics Speech and Signal Processing*, (Hartford, CT), pp. 58-62, May 9-11, 1997.

[129] M. S. Bartlett, "Smoothing Periodograms from Time-Series with Continuous Spectra", *Nature*, no. 4096, pp. 686-687, May 1, 1948.

[130] B. Mulgrew, P. Grant, J. Thompson, *Digital Signal Processing Concepts and Applications*, Macmillan Press, 1999.

[131] L. R. Rabiner, R. W. Schafer and C. M. Rader, "The Chirp z-Transform and Its Applications", *Bell Systems Technical Journal*, pp. 1249-1293, May 1969.

[132] L. R. Rabiner, R. W. Schafer and C. M. Rader, "The Chirp z-Transform algorithm", *IEEE Transactions On Audio and Electroacoustics*, vol. AU-17, no. 2, pp. 86-92, June 1969. (condensed version of [1])

[133] A. V. Oppenheim, R. W. Schafer, *Discrete Time Signal Processing*, Prentice Hall, 1989.

[134] F. J. Harris, "On the Use of Windows for Harmonic Analysis with the Discrete Fourier Transform", *Proceedings of the IEEE*, vol. 66, no. 1, pp. 51-83, January 1978.

[135] G. E. Carlson, *Signal and Linear Signal Analysis*, Wiley, 2nd edition, 1998.

[136] J. Neter, M. H. Kutner, C. J. Nachtsheim, W. Wasserman, *Applied Linear Statistical Models*, 4th edition, WCB/McGraw-Hill, 1996.

[137] MATLAB, *Signal Processing Toolbox Users Guide*, version 5, The Math Works, ch. 7, pp. 152-154, 2000.

[138] H. V. Sorensen, S. Burrus, "Efficient Computation of the DFT with Only a Subset of Input or Output Points", *IEEE Transactions on Signal Processing*, vol. 41, no. 3, pp. 1184-1200, March 1993.

[139] G. E. P. Box, D. R. Cox, "An Analysis of Transformations", *Journal of the Royal Statistical Society*, B26, pp. 211-43, 1964.

[140] R. W. Hamming, *Digital Filters*, Prentice Hall, ch. 11, pp. 189-193, 1973.

[141] K. A. Stroud, *Engineering Mathematics*, Macmillan Press Ltd, 4th Edition, ch. 14, p. 588, 1995.

[142] S. O. Rice, "Mathematical Analysis of Random Noise", *Bell Systems Technical Journal*, vol. 23, pp. 282-332, July 1944 (parts I and II).

[143] S. O. Rice, "Mathematical Analysis of Random Noise", *Bell Systems Technical Journal*, vol. 24, pp. 46-156, July 1945 (part III).

[144] G. R. Cooper, C. D. McGillem, *Probabilistic Methods of Signal and System Analysis*, Oxford University Press, 3rd Edition, 1999.

[145] G. Cowan, *Statistical Data Analysis*, Clarendon Press, ch. 2, p. 35, 1998.

[146] X. Gourdon, P. Sebah, *The Euler Constant*, Numbers Constants and Computation, August 31st, 2001. http://numbers.computation.free.fr/Constants/constants.html

[147] R. R. Hocking, "Developments in Linear Regression Methodology: 1959-1982", Technometrics, vol. 25, no. 3, pp. 219-230, August 1983.

[148] F. A. Graybill, H. K. Iyer, *Regression Analysis Concepts and Applications*, Duxbury Press, 1994.

[149] D. C. Montgomery, G. C. Runger, *Applied Statistics and Probability for Engineers*, Wiley, 2nd edition,1999.

[150] D. G. Klienbaum, L. L. Kupper, K. E. Muller, A. Nizam, *Applied Regression Analysis and other Multivariable Methods*, Duxbury Press, 3rd edition, 1998.

[151] A. H. Nuttall, "Some Windows with Very Good Sidelobe Behaviour", *IEEE Transactions on Acoustics, Speech and Signal Processing*, Vol. ASSP-29, no. 1, pp. 84-91, February 1981.

[152] C. Bingham, M. D. Godfrey, J. W. Tukey, "Modern Techniques of Power Spectrum Estimation", *IEEE Transactions on Audio and Electroacoustics*, vol. AU-15, no. 2, pp. 56-66, June 1967.

[153] U. Gather, "Robust Estimation of the Mean of the Exponential Distribution in Outlier Situations", *Communication in Statistics: Theory and Methods*, vol. 15, no. 8, pp. 2323-2345, 1986.

[154] R. Serfling, "Efficient and Robust Fitting of Lognormal Distributions", *North American Actuaral Journal*, no. 6, pp. 95-109, 2002.

[155] V. Brazauskas, R. Serfling, "Small Sample Performance of Robust Estimators of Tail Parameters for Pareto and Exponential Models*", Journal of Statistical Computation and Simulation*, no. 70, pp. 1-19, 2001.

[156] D. R. Bickel, "Robust Estimators of the Mode and Skewness of Continuous Data", *Computational Statistics and Data Analysis*, no. 39, pp. 153-163, 2001.

[157] V. Brazauskas, R. Serfling, "Robust and Efficient Estimation of the Tail Index of a One-Parameter Pareto Distribution", *North American Actuaral Journal*, no. 4, pp. 12-27, 2000.

[158] D. R. Bickel. "Robust and Efficient Estimation of the Mode of Continuous Data: The Mode as a Viable Measure of Central Tendency", *Journal of Statistical Computation*

Simulation, vol. 73, no. 12, pp. 899-912, December 2003.

[159] X. Li, W. Fang, Q. Tian, "Error Criteria Analysis and Robust Data Fusion", *IEEE International Conference on Acoustics Speech and Signal Processing (ICASP 94)*, 94CH3378-8, pp. IV-37-40, Adelaide Australia, April 19-22, 1994.

[160] R. B. Streets, "Arbitrary Non-Mean Square Error Criteria*", IEEE Transaction on Automatic Control*, pp. 376-377, October 1963.

[161] T. R. Willemain, A. Allahverdi, P. DeSautels, J. Eldredge, O. Gur, M. Miller, G. Panos, A. Srinivasan, J. Surtihadi, E. Topal, "Robust Estimation Methods for Exponential Data: A Monte-Carlo Comparison", *Communication in Statistics: Simulation*, vol. 21, no. 4, pp. 1043-1075, 1992.

[162] R. Pintelon, J. Schoukens, J. Renneboog, "The Geometric Mean of Power (Amplitude) Spectra has a Much Smaller Bias than the Classical Arithmetic (RMS) Averaging", *IEEE Transactions on Instrumentation and Measurement*, vol. 37, no. 2, pp. 213-218, June 1988.

[163] F. Attivissimo, M. Savino, A. Trotta, "A Study of Nonlinear Averaging to Perform Power Spectral Density Estimation Algorithms", *IEEE Transactions on Instrumentation and Measurement*, vol. 49, no. 5, pp. 1036-1042, October 2000.

[164] F. Attivissimo, M. Savino, A. Trotta, "Power Spectral Density Estimation Via Overlapping Nonlinear Averaging", *IEEE Transactions on Instrumentation and Measurement*, vol. 50, no. 5, pp. 1418-1424, October 2001.

[165] E. W. Weisstein, *Arithmetic-Logarithmic-Geometric Mean Inequality*, Wolfram Research Inc, http://mathworld.wolfram.com/Arithmetic-Logarithmic-GeometricMeanInequality.html.

[166] G. Brys, M. Hubert, A. Struyf, "A Robustification of the Jarque-Bera Test of Normality", *International Association of Statistical Computing, 16th Symposium*, Prague, Czech Republic, 23-27th Aug 2004. www.wis.kuleuven.ac/be/stat/papers/tailweightCOMSTAT04.pdf

[167] IEC-60958-3:1999, *Digital audio interface – Part 3: Consumer applications*, International Electrotechnical Commission, Geneva, December 1999.

[168] AES5:1998, *Recommended Practice for Professional Digital Audio – Preferred Sampling Frequencies for Applications Employing Pulse-Code Modulation*, Audio Engineering Society, 1998. http://aes.org/publications/standards

[169] J. Dunn, "Anti-Alias and Anti-Image filtering: The Benefits of 96kHz Sampling Rate Formats for Those Who Cannot Hear Above 18kHz", *Audio Engineering Society 104th Convention*, Amsterdam, May 1998, Preprint No 4734.

[170] F. J. Anscombe, J. W. Tukey, "The Examination and Analysis of Residuals ", *Technometrics*, vol. 5, no. 2, pp. 141-160, May 1963.

[171] J. Durbin, G.S. Watson, "Testing for Serial Correlation in Least Squares Regresssion", *Biometrika*, no. 37, pp. 409-428, 1951.

[172] MATLAB, *Statistics Toolbox Users Guide*, The Mathworks Inc, version 3, ch. 1, pp. 128-129, 2001.

[173] A. B. J. Knee, M. O. J. Hawksford, "Evaluation of Digital Systems and Digital recording Using Real Time Audio Data", *Audio Engineering Society 98th Convention, Paris*, France, February 25-28, 1995, Preprint No 4003.

[174] J. M. Weida, "Classification and Comparison of Real vs Test Audio Signals", *Audio Engineering Society 112th Convention*, Munich, Germany, May 10-13, 2002, Preprint No 5509.

[175] J. Watkinson, "The M-PEG Handbook, MPEG-1, MPEG-2, MPEG-4", Focal Press, 2001.

[176] K. Tsutsui, H. Susuki, O. Shimoyoshi, M. Sonohara, K. Akagiri, R. M. Heddle, "ATRAC: Adaptive Transform Acoustic Coding for MiniDisc", *Audio Engineering Society, Collected Papers on Digital Audio Bit Rate Reduction,* Editors: N. Gilchrist, C. Grewin, pp. 95-101, 1996.

[177] F. Wylie, "Digital Audio Compression-Tandem Coding", *Audio Engineering Society, Collected Papers on Digital Audio Bit Rate Reduction,* Editors: N. Gilchrist, C. Grewin, pp. 141-142, 1996.

[178] R. K. Block, *The Data Analysis Briefbook*, http;//rkb.home.cern.ch/rkb/titleA.html, April 1998.

[179] E. W. Weisstein, *Gamma Function*, Wolfram Research Inc, http://mathworld.wolfram.com/GammaFunction.html April 2005