

PUBLICATIONS – Christopher J. Struck

C. J. Struck and L. Prusick, “*Comparison of Real-World Bandwidth in Hearing Aids vs. Earlens Light-Driven Hearing Aid System*”, *Hearing Review*, Vol. 24, No. 3, pp. 24-29, 2017.

C. J. Struck, “*A, B, & C Weighting and Their Relationship to the Equal Loudness Contours*”, *Voice Coil*, Vol. 30, No. 5 (2017 March).

C. J. Struck, “*Refinements in the Electroacoustic Testing of Headphones*”, proceedings of the Audio Engineering Society International Conference on Headphone Technology – Aalborg, Denmark (2016 August 24–26).

C. J. Struck, “*Opportunities for International Liaison: Acoustical Noise Standards for the New Millennium*”, *InterNoise 2016* – Hamburg, Germany (2016 August 21-24).

ANSI/ASA S3.7-2016, “American National Standard – Method for Measurement and Calibration of Earphones”, C. J. Struck, Working Group S3WG37 Chair.

IEEE 1652-2016, “Standard for Translating Head and Torso Simulator Measurements from Eardrum to Other Acoustic Reference Points”, C. J. Struck, IEEE Working Group on Communications Electroacoustics Member.

ANSI/ASA S1.6-2016, “American National Standard – Preferred Frequencies and Filter Band Center Frequencies for Acoustical Measurements”, C. J. Struck, Working Group S1WG29 Member.

C. J. Struck, “*Boundary Effects on Sources at Low Frequencies*”, *Voice Coil*, Vol. 29, No. 9 (2016 July).

C. J. Struck, “*Hearing Instruments: Innovation, Challenges, and Standards*” (*INVITED*), presented at the FDA Public Workshop - Streamlining Good Manufacturing Practices for Hearing Aids (21 April 2016).

ANSI/ASA S3.20-2015, “American National Standard – Bioacoustical Terminology”, C. J. Struck, Working Group S3WG73 Chair.

C. J. Struck and S. F. Temme, “*Headphone Response: Target Equalization Trade-offs and Limitations*”, presented at the Audio Engineering Society 139th Convention – New York, NY (2015 October 29 – November 1).

C. J. Struck, “*An Overview of the ANSI/ASA Standards Program*”, *InterNoise 2015* – San Francisco, CA (2015 August 9-12). Reprinted in *Sound & Vibration* – 2015 December.

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C. J. Struck, “*Free Plus Diffuse Sound Field Target Earphone Response Derived From Classical Room Acoustics Theory*”, presented at the Audio Engineering Society 135th Convention – New York, NY (2013 October 17-20).

C. J. Struck, “*Calibrating for Loudspeaker Impedance Measurements*”, *The 2013 Loudspeaker Industry Sourcebook*, Segment LLC, publishers of *Voice Coil*, (2013 July 15).

ANSI/ASA S3.36-2012, “American National Standard – Specification for a Manikin for Simulated in-situ Airborne Acoustic Measurements”, C. J. Struck, Working Group S3WG67 Chair.

C. J. Struck, “*Modern Tools for the Development of Acoustical Standards*”, presented at the Acoustical Society of America 162nd Meeting (*INVITED*) – San Diego, CA (2011 October 31 – November 4). Reprinted in *Acoustics Today*, 2012 January.

C. J. Struck, “*ZFIT: A MATLAB Tool for Thiele-Small Parameter Fitting and Optimization*”, presented at the Audio Engineering Society 129th Convention – San Francisco, CA (2010 November 4-7).

ANSI/ASA S3.35-2010, “American National Standard – Method of Measurement of Performance Characteristics of Hearing Aids Under Simulated Real-Ear Working Conditions”, C. J. Struck, Working Group S3WG48 Member.

IEEE 269-2010, “Standard Methods for Measuring Transmission Performance of Analog and Digital Telephone Sets, Handsets, and Headsets”, C. J. Struck, IEEE Subcommittee on Telecommunications Instrument Testing Member.

IEEE 1329-2010, “Standard for Measuring Transmission Performance of Speakerphones”, C. J. Struck, IEEE Subcommittee on Telecommunications Instrument Testing Member.

ANSI/ASA S3.25-2009, “American National Standard for an Occluded Ear Simulator”, C. J. Struck, Working Group S3WG37 Chair.

C. J. Struck, D. Foley, “*Ensuring Accurate Playback And Analysis Of Binaural Recordings For Automotive Systems*”, presented at the Audio Engineering Society 36th International Conference – Dearborn, MI (2009 June 2-4).

C. J. Struck, K. Thorborg, A. Unruh, “*An Improved Electrical Equivalent Circuit Model for Dynamic Moving Coil Transducers*”, presented at the Audio Engineering Society 122nd Convention – Vienna (2007 May 5-8).

C. J. Struck, R. Little, A. Unruh, A. Jabbari, and J. P. Axelsson “*An Extended Small Signal Parameter Loudspeaker Model for the Linear Array Transducer*”, presented at the Audio Engineering Society 121st Convention – San Francisco, CA (2006 October 5-8).

C. J. Struck, A. Unruh, “*Linear Array Transducer Technology*”, presented at the Audio Engineering Society 121st Convention – San Francisco, CA (2006 October 5-8).

C. J. Struck, “*An Artificial Diffuse Field For In-Situ Microphone Measurements*” (INVITED), presented at the NOISECON/Acoustical Society of America 150th Meeting – Minneapolis, MN (2005 October 17-21).

C. J. Struck, C. Chabanne, N. Saint-Arnaud, “*A New Low-Latency, Discrete Multichannel Virtualization Technique*”, presented at the Audio Engineering Society 24th International Conference – Banff, Canada (2003 June 26-28).

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C. J. Struck, “*Simulated Diffuse Field Measurements*”, presented at the Audio Engineering Society 107th Convention – New York, NY (1999 September 26-29).

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C. J. Struck B. W. Edwards, P. Dharan, and Z. Hou, “*New Digital Signal Processor for Hearing Loss Based on the Auditory System*”, Hearing Journal, Vol. 51, No. 8, 1998 August.

C. J. Struck, “*Characterization of Directional Hearing Devices*”, presented at the 10th Annual Convention of the American Academy of Audiology - Los Angeles, (1998 April 2-5).

C. J. Struck and B.W. Edwards, “*Device Characterization Techniques for Digital Hearing Aids*”, presented at the 3rd Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan – Honolulu, (1996 December 2-6).

C. J. Struck, Z. Hou, and C.V. Pavlovic, “*A Prescription for Non-linear Hearing Aids Using Speech Intelligibility and Loudness Models*”, presented at the 3rd Joint Meeting of the ASA and the Acoustical Society of Japan - Honolulu, (1996 December 2-6).

IEEE 1027-1996, “Standard Method for Measurement of the Magnetic Field in the Vicinity of a Telephone Receiver”, C. J. Struck, IEEE Subcommittee on Telecommunications Instrument Testing Member.

C. J. Struck, D. R. Schwind, and A. P. Nash, “*The Early Sound Field In Performance Halls*”, presented at the Audio Engineering Society 99th Convention - New York, (1995 October 6-9).

C. J. Struck and S. F. Temme, “*Simulated Free Field Measurements*”, Journal of the Audio Engineering Society, Vol. 42, No. 6, 1994 June.

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C. J. Struck, "*Presentation and Interpretation of Loudspeaker Measurement Results*", presented at the Audio Engineering Society 94th Convention - Berlin, (1993 March 16-19).

C. J. Struck, "*Applications of Modern Sine-Based Measurement Algorithms in Electroacoustics*", presented at the NOBIM-NORSIG Conference - Lillehammer, Norway (1993 February 19-20).

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C. J. Struck, "*Evaluation of Headphone Performance with a Head And Torso Simulator*", presented at the 13th International Congress on Acoustics - Zagreb, (1989 August 24-31).

C. J. Struck, K. Baden-Kristensen, and O. Z. Pedersen, "*On The Measurement Of The Insertion Gain Of Audio Communication Systems Using Head And Torso Simulators*", Fortschritte der Akustik - Plenarvorträge und Kurzreferate der 15. Gemeinschaftstagung der Deutschen Arbeitsgemeinschaft für Akustik DAGA '89 - Duisberg, (1989 March 13-16).

C. J. Struck, "*Determination of the Thiele-Small Parameters Using Two-Channel FFT Analysis*", Brüel & Kjær Application Note, 1988 May - presented at the Audio Engineering Society 82nd Convention - London, (1987 March 10-13).