

## **PUBLICATIONS – Christopher J. Struck**

- C. J. Struck, “*ZFIT: A MATLAB Tool for Thiele-Small Parameter Fitting and Optimization*”, presented at the Audio Engineering Society 129<sup>th</sup> Convention – San Francisco, CA (2010 November 4-7).
- C. J. Struck, D. Foley, “*Ensuring Accurate Playback And Analysis Of Binaural Recordings For Automotive Systems*”, presented at the Audio Engineering Society 36<sup>th</sup> 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 122<sup>nd</sup> 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 121<sup>st</sup> Convention – San Francisco, CA (2006 October 5-8).
- C. J. Struck, A. Unruh, “*Linear Array Transducer Technology*”, presented at the Audio Engineering Society 121<sup>st</sup> 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 150<sup>th</sup> 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 24<sup>th</sup> International Conference – Banff, Canada (2003 June 26-28).
- C. J. Struck, L. Olson, and H. Müsch, “*Digital Solutions For Feedback Control*”, *The Hearing Review*, Vol. 8, No. 5, 2001 May.
- C. J. Struck, “*Simulated Diffuse Field Measurements*”, presented at the Audio Engineering Society 107<sup>th</sup> Convention – New York, NY (1999 September 26-29).
- C. J. Struck, “*Signal Processing for Improving Speech Perception in Noise*”, presented at the 11<sup>th</sup> Annual Convention of the American Academy of Audiology – Miami Beach, FL (1999 April 28 – May 2).
- C. J. Struck and Z. Ribic, “*Measurements of Level-Dependent Small Microphone Systems*”, presented at the Audio Engineering Society 105<sup>th</sup> Convention - San Francisco, (1998 September 26-29).
- C. J. Struck and B.W. Edwards, “*Measurement Techniques for Digital Signal Processing Hearing Aids*”, presented at the Audio Engineering Society 105<sup>th</sup> Convention - San Francisco, (1998 September 26-29).
- C. J. Struck, B. W. Edwards, P. Dharan, and Z. Hou, “*Signal Processing Algorithms For A New Software-Based Digital Hearing Device*”, *Hearing Journal*, Vol. 52, No. 9, 1998 September.
- 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 10<sup>th</sup> 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 3<sup>rd</sup> 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 3<sup>rd</sup> Joint Meeting of the ASA and the Acoustical Society of Japan - Honolulu, (1996 December 2-6).
- C. J. Struck, D. R. Schwind, and A. P. Nash, “*The Early Sound Field In Performance Halls*”, presented at the Audio Engineering Society 99<sup>th</sup> 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.
- C. J. Struck, “*Electroacoustic Measurements on Telephones*”, Brüel & Kjær Lecture Note, (1993 December).
- C. J. Struck and S. F. Temme, “*A Comparison of Techniques for Evaluation of Loudspeakers at Low Frequencies*”, presented at the Audio Engineering Society 95<sup>th</sup> Convention - New York, (1993 October 7-10).

C. J. Struck, "*Presentation and Interpretation of Loudspeaker Measurement Results*", presented at the Audio Engineering Society 94<sup>th</sup> 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).

C. J. Struck, "*An Adaptive Scan Algorithm for Fast Response Measurements*", presented at the Audio Engineering Society 91<sup>st</sup> Convention - New York, (1991 October 4-8).

C. J. Struck and C. H. Biering, "*A New Technique for Fast Response Measurements Using Linearly Swept Sine Excitation*", presented at the Audio Engineering Society 90<sup>th</sup> Convention - Paris, (1991 February 19-22).

C. J. Struck, "*Investigation of the Nonrigid Behavior of a Loudspeaker Diaphragm Using Modal Analysis*", Journal of the Audio Engineering Society, Vol. 38, No. 9, 1990 September. Also featured in the AES "*Loudspeakers Anthology, Vol. 4,*" 1995.

C. J. Struck, "*Measuring the Nonrigid Behavior of a Loudspeaker Diaphragm using Modal Analysis*", Brüel & Kjær Appl. Note, 1990 April.

C. J. Struck, "*Evaluation of Headphone Performance with a Head And Torso Simulator*", presented at the 13<sup>th</sup> 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 - Düisberg, (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 82<sup>nd</sup> Convention - London, (1987 March 10-13).