

Vicente Cutanda - PUBLICATIONS

Papers in Journals

-*"A Numerical and Experimental Investigation of the Performance of Sound Intensity Probes at High Frequencies"*. Finn Jacobsen, Vicente Cutanda and Peter M. Juhl. Journal of the Acoustical Society of America 103, 953-961 (1998).

-*"On the Modeling of Narrow Gaps Using the Standard Boundary Element Method"*, Vicente Cutanda, Peter M. Juhl and Finn Jacobsen. Journal of the Acoustical Society of America, 109, 1296-1303 (2001).

-*"A Sound Intensity Probe for Measuring from 50 Hz to 10 kHz"*. Finn Jacobsen, Vicente Cutanda and Peter M. Juhl. Brüel & Kjaer Technical Review Nr. 1, 1996, 1-8.

-*"A BEM approach to validate a model for predicting sound propagation over non-flat terrain"*. Susana Quirós y Alpera, Finn Jacobsen, Peter M. Juhl and Vicente Cutanda Henríquez. Applied Acoustics 64, 781-791 (2003).

-*"Final report on the key comparison CCAUV.A-K3"*. Vicente Cutanda Henríquez and Knud Rasmussen. Metrologia 43 09001 (2006).

<http://www.iop.org/EJ/abstract/0026-1394/43/1A/09001>

http://www.bipm.org/utis/common/pdf/final_reports/AUV/A-K3/CCAUV.A-K3.pdf

Congress Publications

-*"A Numerical Investigation on the Performance of Sound Intensity Probes at High Frequencies"*, Vicente Cutanda, Peter M. Juhl and Finn Jacobsen. Proceedings of the Fourth International Congress on Sound and Vibration. St. Petersburg, Russia, June 1996, pp. 1897-1904.

-*"A Sound Intensity Probe for Measuring from 50 Hz to 10 Khz"*, Finn Jacobsen, Vicente Cutanda and Peter M. Juhl. Proceedings of Inter-Noise 96. Liverpool, United Kingdom, July-August 1996, pp. 3357-3362.

-*"Low Frequency Sound Transmission Measurements and Numerical Simulations: a Comparative Study"*, Vicente Cutanda and Andrzej Pietrzyk. Proceedings of Inter-Noise 97. Budapest, Hungary, 25-27 August 1997, pp. 1449-1452.

-*"Noise Map of the Madrid Region"*. Manuel Recuero, Antonio Mínguez, Constantino Gil, Vicente Cutanda. ISMA 23, Leuven, Belgium, 1998.

-*"Efectos del ruido medioambiental en los alumnos de la Universidad Politécnica de Madrid"*. Manuel Recuero, Antonio Mínguez, Constantino Gil, Vicente Cutanda. 1º Congreso mundial de la Salud y Medioambiente Urbano, Madrid, Spain, 1998.

-*"Numerical Transducer Modeling"*, Vicente Cutanda. Proceedings of Sixth International Congress on Sound and Vibration, Lyngby, Denmark, July 1999, pp. 563-570.

-*"Modeling of Visco-Thermal Damping in Condenser Microphones"*, Vicente Cutanda. Proceedings of Seventh International Congress on Sound and Vibration, Garmisch-Partenkirchen, Germany, July 2000, pp. 1975-1982.

-“*Boundary-Element Simulation Used in the Design of a Sound Intensity Calibrator*”, Johan Gramtorp, Vicente Cutanda, Anders Eriksen and Erling Sandermann Olsen. 140th ASA Meeting/NOISE-CON 2000, Newport Beach, CA, USA, 2000. Abstract published in Journal of the Acoustical Society of America 108, p. 2551.

-“*Calculating the Sound Field in an Acoustic Intensity Probe Calibrator – A Practical Utilization of Boundary Element Modelling*”, Erling Sandermann Olsen, Vicente Cutanda, Johan Gramtorp and Anders Eriksen. Proceedings of Eighth International Congress on Sound and Vibration, Hong Kong, China, July 2001, pp. 2313-2321.

-“*Calculation of Transfer Functions Related to a Head and Torso Simulator*”, Manuel Sobreira, Peter M. Juhl and Vicente Cutanda. Proceedings of Eighth International Congress on Sound and Vibration, Hong Kong, China, July 2001, pp. 135-142.

-“*Validation of an Efficient Outdoor Sound Propagation Model Using BEM*”, Susana Quirós-Alpera, Vicente Cutanda and Finn Jacobsen. 17th International Congress of Acoustics, Rome, Italy, September 2001.

-“*Calculation of Visco-Thermal Losses in Thin Fluid Layers using BEM*”, Vicente Cutanda and Peter M. Juhl. Proceedings of Ninth International Congress on Sound and Vibration, Orlando, Florida, USA, July 2002.

-“*On the Non-Uniqueness Problem In a 2D Half-Space Formulation*”, Peter M. Juhl, Finn Jacobsen, Vicente Cutanda and Susana Quirós y Alpera. Proceedings of Ninth International Congress on Sound and Vibration, Orlando, Florida, USA, July 2002.

-“*Sound intensity probe calibrator for field use: calculating the sound field in the calibrator using boundary element modelling*”. Bernard Ginn, Erling Olsen, Vicente Cutanda, Johan Gramtorp, Anders Eriksen. Forum Acusticum Sevilla 2002, Sevilla, Spain, July 2002.

-“*FEM-BEM modeling of microphones and its application to acoustic primary metrology*”. Vicente Cutanda Henríquez and Manuel Sobreira Seoane. Proceedings of Inter.-Noise 2003, Seogwipo, Korea, 25-28 August 2003, 671-676.

-“*Sugerencias sobre una política de lucha contra el ruido ambiental en México*”. Vicente Cutanda Henríquez y Jose Noé Razo Razo. 10^o Congreso Internacional Mexicano de Acústica, Puebla de los Ángeles, México, 26-28 de noviembre de 2003. CD-ROM.

-“*Interferencia de ondas acústicas en la calibración primaria de micrófonos por reciprocidad en campo libre*”. Salvador Barrera Figueroa, Knud Rasmussen, Finn Jacobsen, Lorenzo Marcos Muñiz Mendoza y Vicente Cutanda Henríquez. 2^o Simposio Internacional de Metrología, Querétaro, México, Octubre 2004. CD-ROM.

-“*Análisis de comparaciones primarias en acústica con bucles y artefactos múltiples: caso de CCAUV.A-K3*” Vicente Cutanda Henríquez, Andrés E. Pérez Matzumoto y Guillermo Silva Pineda. 3er Congreso Español de Metrología. Zaragoza, España, mayo 2005.

-“*The effect of the geometry of a resonant cavity on the acoustic levitation force*” Arturo O. Santillán, Ricardo R. Boullosa and Vicente Cutanda-Henriquez. Proceedings of Twelfth International Congress on Sound and Vibration, Lisbon, Portugal, July 2005.

-*“Condiciones de levitación acústica mejoradas mediante la geometría de la cavidad resonante”*, A. Orozco Santillán, R. Ruiz Boullosa and V. Cutanda Henríquez, XLVIII Congreso Nacional de Física, Sociedad Mexicana de Física, Guadalajara, Jalisco, 2005.

-*“The CCAUV.A-K3 Key Comparison of pressure reciprocity calibration of LS2P microphones: results and analysis”*. Vicente Cutanda Henríquez, Knud Rasmussen and Lars Nielsen. 3er Simposio Internacional de Metrología, Querétaro, México, October 2006.

-*“A numerical study of the random-incidence and diffuse-field sensitivity of laboratory standard microphones using BEM”*, Salvador Barrera Figueroa, Vicente Cutanda Henríquez, Finn Jacobsen, and Knud Rasmussen. Proceedings of 33rd International Acoustical Conference, pp. 308-311, High Tatras, Slovakia, 2006.

-*“Dependence of oscillational instabilities on the amplitude of the acoustic wave in single-axis levitators”*, Arturo O. Santillán, Ricardo R. Boullosa, Vicente Cutanda-Henríquez² and Antonio Pérez López. Proceedings of the Fourteenth International Congress on Sound and Vibration, Cairns, Australia, July 2007.

-*“Acoustic boundary element method formulation with treatment of nearly singular integrands by element subdivision”*, Vicente Cutanda Henríquez and Peter Juhl. Proceedings of the 19th International Congress on Acoustics, Madrid, 2-7 September 2007.