

ACTA ACUSTICA

UNITED WITH

ACUSTICA

The Journal of the European Acoustics Association (EAA) · International Journal on Acoustics

Table of Contents

Scientific Papers

General Linear Acoustics

- T. Valier-Brasier, C. Potel, M. Bruneau, D. Leduc, B. Morvan, J.-L. Izbicki**
Coupling of Shear Acoustic Waves by Gratings: Analytical and Experimental Analysis of Spatial Periodicity Effects **717**

Nonlinear Acoustics, Macrosonics

- Y. Liu, X. Guo, Z. Da, D. Zhang, X. Gong**
Imaging Cracks in Bones Using Acoustic Nonlinearity: A Simulation Study **728**

Physical Acoustics

- J. Descheemaeker, C. Glorieux, W. Lauriks, J. P. Groby, P. Leclaire, L. Boeckx**
Study of Circumferential Waves on a Poroelastic Cylinder **734**

- G. C. Gaunard, F. A. Sadjadi**
Energy Radiation from an Impulsive Acoustic Monopole with Uniform Internal Structure, and from a Pair of Colliding Acoustic Dipoles **744**

Noise Control

- L. Babu, C. Padmanabhan**
Hybrid Active and Passive Noise Control of Cavities **752**

Environmental Noise

- M. Ausejo, M. Recuero, C. Asensio, I. Pavón**
Reduction in Calculated Uncertainty of a Noise Map by Improving the Traffic Model Data Through Two Phases **761**

- R. Janczur, E. Walerian, M. Czechowicz**
Façade Shaping as Local Means Protecting Against Traffic Noise **769**

Room Acoustics

- C.-H. Jeong**
Guideline for Adopting the Local Reaction Assumption for Porous Absorbers in Terms of Random Incidence Absorption Coefficients **779**

- Y. H. Kim, J. H. Kim, J. Y. Jeon**
Scale Model Investigations of Diffuser Application Strategies for Acoustical Design of Performance Venues **791**

ACTA ACUSTICA

UNITED WITH

ACUSTICA

The Journal of the European Acoustics Association (EAA) · International Journal on Acoustics

Electroacoustics and Signal Processing

B. Gazengel, P. Hamery, P. Lotton, A. Ritty

A Dome Shaped PVDF Loudspeaker Model 800

Hearing, Audiology and Psychoacoustics

R. Ordoñez, D. Hammershøi

Time and Frequency Characteristics of Temporary Threshold Shifts Caused by Pure Tone Exposures 809

Musical Acoustics

D. B. Sharp, A. Mamou-Mani, M. van Walstijn

A Single Microphone Capillary-Based System for Measuring the Complex Input Impedance of Musical Wind Instruments 819

R. Bader

Characterizing Classical Guitars Using Top Plate Radiation Patterns Measured by a Microphone Array 830

Auditory Quality of Systems

E. Murphy, M. Lagrange, G. Scavone, P. Depalle, C. Guastavino

Perceptual Evaluation of Rolling Sound Synthesis 840

P. Počta, J. Holub

Predicting the Quality of Synthesized and Natural Speech Impaired by Packet Loss and Coding Using PESQ and P.563 Models 852

Technical and Applied Papers

S. Kumar, L. Feng, U. Orrenius

Predicting the Sound Transmission Loss of Honeycomb Panels using the Wave Propagation Approach 869

V. Martin, M.-H. Moulet, S. Mapagha

Prediction of Forces Applied on a Receiver by Two Vibrating Structures Installed in Series; Application to an Engine Cooling Fan Mounted on a Car Chassis 877

Z. Zhang, C. M. Mak, J. Li

A Numerical Study of the Diffusion Performance of a Terraced Classroom 890

Short Communications

A. Can, D. Botteldooren

Towards Traffic Situation Noise Emission Models 900

ACTA ACUSTICA

UNITED WITH

ACUSTICA

The Journal of the European Acoustics Association (EAA) · International Journal on Acoustics

J. Brunskog, H. D. Hwang, C.-H. Jeong Subjective Response to Foot-Fall Noise, Including Localization of the Source Position	904
 Letters to the Editor	
T. J. Cox Comment on article “Nico F. Declercq <i>et al.</i> : An acoustic diffraction study of a specifically designed auditorium having a corrugated ceiling: Alvar Aalto’s lecture room”	909
N. F. Declercq Reply on Comment on article “Nico F. Declercq <i>et al.</i> : An acoustic diffraction study of a specifically designed auditorium having a corrugated ceiling: Alvar Aalto’s lecture room”	909
 European Acoustics Association News	911
Upcoming Events	911
Doctoral Thesis Abstracts	912
Instructions for Authors	916
Editorial Board	917