## JOURNAL OF SOUND AND VIBRATION

An official medium of publication for the Institute of Acoustics

Founder: E.J. Richards Editors Emeritus: P.E. Doak M. Petyt

Editors

Acting European Editor:

C. Morfey

Institute of Sound and Vibration Research University of Southampton Southampton SO17 1BJ UK

E-mail: jsv@isvr.soton.ac.uk

Associate European Editor:

M.P. Cartmell

Department of Mechanical Engineering University of Glasgow University Avenue Glasgow G12 8QQ

Americas Editor:

W. Soedel

Ray W. Herrick Laboratories Purdue University 140 S. Intramural Drive West Lafayette, IN 47907-2031 LISA

E-mail: dmiller@ecn.purdue.edu

Australasian Editor and Associate Editor:

Y.K. Cheung and L.G. Tham University of Hong Kong

Submissions c/o:

Journal of Sound and Vibration **S&T** Editorial Services 1 West, Elsevier The Boulevard, Langford Lane

Kidlington, OX5 1GB

E-mail: jsv@elsevier.com

WWW Editor:

Yu.I. Bobrovnitskii

Russian Academy of Science Engineering Research Institute Moscow 101830

Russia

E-mail: bobrovni@orc.ru

Reviews in Physical Acoustics Editor:

M.J. Buckingham

University of California San Diego La Jolla, CA 92093-0213

USA

E-mail: mjb@mpl.ucsd.edu

Book Review Editor:

M.C.M. Wright

Institute of Sound and Vibration Research University of Southampton Southampton SO17 1BJ

E-mail: mcmw@isvr.soton.ac.uk

Editorial Board

University of Oklahoma, 865 Asp Avenue. Rm 212, Norman, OK 73019, USA

University College London, Gower Street, London WC1E 6BT, UK

A. Cummings

Poplar House, Humbleton Road Lelley, East Yorkshire HU12 8SP, UK

E. Dokumaci

Dokuz Eylul University, Bornova 35100, Izmir, Turkey

E.H. Dowell

Duke University, Durham NC 27706, USA

A.P. Dowling

University of Cambridge, Cambridge CB2 1PZ, UK

J.F. Dunne

University of Sussex, Falmer, Brighton, Sussex BN1 9QT, UK

Florida Atlantic University. Boca Raton, FL 33431-0991, USA

F. Farassat

NASA Langley Research Center, M/S 461,

Hampton, VA 23681-2199, USA

J.M. Fields

10407 Royal Road, Silver Spring MD 20903, USA

N.H. Fletcher

Australian National University, Canberra, ACT 0200, Australia

Academy of Sciences of Czech Republic Prosecká 76, 190 00 Prague 9,

Czech Republic

G.M.L. Gladwell

University of Waterloo,

Waterloo, Ontario, Canada N2L 3G1

S.A.L. Glegg

Florida Atlantic University, Boca Raton, FL 33431-0991, USA

J.-L. Guvader

INSA-Lyon,

F-69621 Villeurbanne Cedex, France

D.M.L. Habault

CNRS, 31 Chemin Joseph Aiguier, F-13402 Marseille, Cedex 20, France

Maria Heckl

Keele University, Keele, Staffordshire ST5 5BG, UK

Y.-H. Kim

Center for Noise and Vibration Control. Science Town, Taejon-shi 305-701, Korea G.H. Koopmann

Pennsylvania State University, University Park, PA 16801-1400, USA

R.S. Langley

University of Cambridge, Cambridge CB2 1PZ, UK

P.A.A. Laura

Institute of Applied Mechanics, 8000 Bahía Blanca, Argentina

A.W. Leissa

Colorado State University, Fort Collins, CO 80523-1374, USA

S. Lindblad

Lund Institute of Technology, P.O. Box 118, S-221 00 Lund, Sweden

D.J. Mead

University of Southampton, Southampton SO17 1BJ, UK

C.D. Mote, Jr.

University of Maryland, College Park, MD 10742, USA

DLR, Müller Breslau Straße 8, D-10623 Berlin, Germany

B.A.T. Petersson

Technical University of Berlin, D-10587 Berlin, Germany

A.D. Pierce

Boston University, 110 Cummington Street, Boston, MA 02215, USA

Michigan State University, East Lansing, MI 48824-1226, USA

R. Singh

Ohio State University, 650 Ackerman Road Columbus, OH 43210, USA

P.R. Stepanishen

University of Rhode Island, Narragansett Bay Campus, RI 02881, USA

W. Szemplinska-Stupnicka

Polish Academy of Sciences, Swietokrzyska 21, 00-049 Warsaw, Poland

J.M.T. Thompson

University College London, Gower Street, London WC1E 6BT, UK

G. Yamada

Hokkaido University, Kita-13, Nishi-8, Kita-ku, Sapporo 060, Japan

R. Zhang

Chinese Academy of Sciences, Beijing 100080, P.R. China