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Journal of Sound and Vibration 268 (2003) 1057–1058

JOURNAL OF
SOUND AND
VIBRATION

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Book review

Proceedings of the 2002 International Conference on Modal Analysis, Noise and Vibration Engineering by P. Sas, and B. van Hal (Eds.), KU Leuven, Belgium, price €60, CD-Rom, ISBN 90-73802-79-2

ISMA 2002 is the latest in a long line of conferences, held every 2 years, which are organized by the Department of Mechanical Engineering, Katholieke Universiteit, Leuven. The conference was a success with a technical program which included two keynote lectures, 10 tutorial lectures and about 270 technical papers.

As is the current trend, the Proceedings were produced on CD-Rom. The disc contains sections on How to use this CD-Rom, About ISMA, Table of Contents, Book of Abstracts and an Author Index. The methods available for retrieving papers are explained in the section on How to use this CD-Rom.

The two keynote lectures dealt with large-scale experiments for vibration control and vulnerability assessment of bridges and progress in the automotive NVH field. Tutorial lectures in the technical program were included for the first time. They gave a critical overview of the state of the art in various fields of noise and vibration engineering and structural dynamics. Specifically, they covered benchmarks for structural health monitoring, passive material damping, SEA, mid-frequency vibro-acoustic modelling, validation of structural dynamic models, identification of non-linear systems, system identification, monitoring of rotating machinery, requirements for structural testing, and vehicle NVH development.

The technical papers were divided into 17 topics: (1) Active and passive noise and vibration control (24 papers); (2) Aeroacoustics and flow noise vibrations (10 papers); (3) Damage detection and identification (7 papers); (4) Damping (15 papers); (5) Dynamic testing, identification and modelling (41 papers); (6) Fatigue and durability analysis (5 papers); (7) Measurement technology (10 papers); (8) Medium and high frequency techniques (19 papers); (9) Model correlation and updating (13 papers); (10) Non-linearities (12 papers); (11) Parameter identification (8 papers); (12) Rotating machinery (19 papers); (13) Substructuring (8 papers); (14) Transfer path analysis and source identification (8 papers); (15) Uncertainties in structural dynamics and acoustics (7 papers); (16) Vehicle noise and vibration (NVH) (17 papers); (17) Vibro-acoustic analysis, modelling and prediction (23 papers).

The conference also included a Poster session consisting of 20 presentations. The Proceedings contains the full papers corresponding to these.

With such a wide spectrum of topics covered, the Proceedings are a must for anyone seriously interested in structural dynamics, modal analysis and noise and vibration engineering.

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