

PREFACE

The papers appearing in the present volume of Engineering Transactions were presented at the 7-th International Conference on Active Noise and Vibration Control Methods. The conference, held in Wigry in June 8–12, 2005, was organized by the Department of Process Control of the AGH University of Science and Technology and supported by the Committee of Mechanics, Section of Dynamics and Systems, of the Polish Academy of Sciences.

The Conference program included problems connected with active and semi-active vibration reduction methods, active noise cancellations methods, structural control, hardware and software supporting active noise and vibration control as well as vibration isolation. For the first time, a special session devoted to smart materials applications such as MR fluids, piezoelectric materials, shape memory alloys and so on for vibration control of adaptive structures was organised. The conclusion that follows from the presented session papers is that the team of conference participants to be interested in such issues grows rapidly.

The Active Noise and Vibration Control Methods Conference organized every second year from 1993, is getting a constantly growing interest of specialists not only in Poland but also abroad. Within the framework of scientific sessions proceedings, specialists in theoretical and applied sciences exchange their views in different branches of science and technology, what is inspiring for further development of the research in the field of active vibration and noise control.

We would like to thank warmly the Editorial Staff of Engineering Transactions for making papers on vibration and noise reduction widely available.

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