



Active Control of Noise and Vibration

By Colin Hansen, Scott Snyder, Xiaojun Qiu, Laura Brooks, Danielle Moreau

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This second edition covers recent theoretical and practical developments, while at the same time devoting considerable space to fundamental principles that will not become outdated with time. It begins with an updated overview and includes new information included reflects the advances that have been made in algorithms, DSP, hardware, and applications.

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Editorial Review

Review

Praise for the Previous Edition "... the treatment is attractive and meticulous and accurate ... appears to be a good buy." -Bulletin of the Institute of Acoustics "... a very good and complete reference on the subject." - The Structural Engineer

About the Author

Colin Hansen is professor emeritus in the School of Mechanical Engineering at the University of Adelaide. He established the ANVC group at the university in 1987 and led the group until his retirement at the end of 2011. The group is internationally recognized for its extensive contributions to the advancement of scientific knowledge in many aspects of active noise and vibration control. In 2012 he was made the 15th honorary fellow of the International Institute of Acoustics and Vibration (IIAV) in recognition of his "outstanding contributions to scientific knowledge in acoustics, noise and vibration" and in 2009 was awarded the Rayleigh Medal by the British Institute of Acoustics for "outstanding contributions to acoustics". Scott Snyder is currently pro vice-chancellor, strategy and planning, at Charles Darwin University (CDU). He has also been the Executive Director, Corporate Services and an Executive Dean at that institution. Prior to moving to CDU, Snyder was a member of academic staff in the School of Mechanical Engineering at the University of Adelaide, and later head of IT Services at that organization. His Ph.D. was in the area of active noise and vibration control and he spent a number of years undertaking further research on ANVC in Japan and at the University of Adelaide prior to being appointed to Academic Staff. Xiaojun Qiu is a professor in acoustics and signal processing and head of the Institute of Acoustics, Nanjing University. He worked with Colin Hansen in the School of Mechanical Engineering at the University of Adelaide, Australia, as a research fellow from 1997 to 2002. He is a member of the Audio Engineering Society and the International Institute of Acoustics and Vibration. He has authored and co-authored two books and more than 250 technical papers, and holds more than 70 patents on audio acoustics and audio signal processing. Laura Brooks is an adjunct lecturer at the School of Mechanical Engineering at the University of Adelaide. She was selected by Engineers Australia for inclusion in the list of Australia's Most Inspiring Young Engineers in 2005 and was awarded the 2006 Fulbright Postgraduate Award in Engineering. Her research interests include aeroacoustics, ocean acoustics, seismic noise, vibrations, active control, signal processing, and engineering education. Danielle Moreau is a postdoctoral research associate at the School of Mechanical Engineering at the University of Adelaide, where she received a University Postdoctoral Research Medal for her Ph.D. research on virtual sensing in active control. The focus of Dr Moreau's current work is on the understanding and control of flow-induced noise. She has more than 20 publications and has given seminars to research groups in Japan and the United States.

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