

# Active Noise and Vibration Control



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著者:Tokhi, M. Osman

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Noise and vibration are known to have adverse physiological and psychological effects as well as their deleterious consequences for engineering concerns as disparate as signal quality and ride comfort. Accordingly, researchers have investigated the development of various methods for noise reduction and vibration suppression. It is now time for the fruits of this research to be made easily accessible to students. With these goals in mind, Active Noise and Vibration Control shows you how to analyse and design control systems from an engineering perspective. This approach teaches you to predict the performance of a system in advance, reducing the empirical aspects of design. Making use of control engineering concepts, your skills in dealing with noise and vibration will develop from fixed digital control through self-tuning adaptive control to the incorporation of neural networks and genetic algorithms within a single intelligent control framework. Featuring: Consideration of design complexity and realisability in relation to given system configurations. Illustrations and worked examples throughout the body of the book that demonstrate its concepts of intertwined analysis and design together with end-of-chapter exercises and further reading lists to drive home points made in the text. Associated software environments based on Matlab./Simulink. available on-line that allow you first to simulate noise and vibration patterns in different media and then to realise and assess your own control

designs. An essential study aid for graduate students of systems and control engineering, signal processing, communications, acoustics and vibration, Active Noise and Vibration Control will also interest industrial developers of equipment associated with these disciplines. Final-year undergraduates in related subjects should also find much to assist them in this text.

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目录:

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