



## Active Vibration Control Systems in the Frequency and Sub-Band Domain

By Wang, Longji

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Algorithm Development and Applications | Active noise and vibration control has been the subject of intense study in the last two decades. Adaptive filtering plays a key role in the successful applications of active noise and vibration control systems. Some challenges facing adaptive filter design is how to increase the convergence rate of adaptive filtering and how to trade off the active control performance from the various frequency sub-bands. This book tackles these challenges by implementing the adaptive filtering algorithm in the frequency and sub-band domains. Specifically, this book presents a new sub-band adaptive filter architecture without a signal path delay and derives the associated adaptive algorithm. The discussed algorithms are applied to actively reduce the vibration of a hard disk drive. Real time and simulation results are provided throughout the book accompanying the algorithm discussion. It not only serves as an introductory text for active noise and vibration control system, but as a practical reference for developing adaptive algorithm in the frequency and sub-band domains. | Format: Paperback | Language/Sprache: english | 185 gr | 128 pp.



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