

# Active Control *of* Vibration

C.R. Fuller, S.J. Elliott & P.A. Nelson



Active Control of Vibration, Christopher C. Fuller, Sharon Elliott, P. A. Nelson, Academic Press, 1996, 0080525911, 9780080525914, 332 pages. This book is a companion text to Active Control of Sound by P.A. Nelson and S.J. Elliott, also published by Academic Press. It summarizes the principles underlying active vibration control and its practical applications by combining material from vibrations, mechanics, signal processing, acoustics, and control theory. The emphasis of the book is on the active control of waves in structures, the active isolation of vibrations, the use of distributed strain actuators and sensors, and the active control of structurally radiated sound. The feedforward control of deterministic disturbances, the active control of structural waves and the active isolation of vibrations are covered in detail, as well as the more conventional work on modal feedback. The principles of the transducers used as actuators and sensors for such control strategies are also given an in-depth description. The reader will find particularly interesting the two chapters on the active control of sound radiation from structures: active structural acoustic control. The reason for controlling high frequency vibration is often to prevent sound radiation, and the principles and practical application of such techniques are presented here for both plates and cylinders. The volume is written in textbook style and is aimed at students, practicing engineers, and researchers. Key Features\* Combines material from vibrations, signal processing, mechanics, and controls\* Summarizes new research in the field.

Multivariable feedback control analysis and design, Sigurd Skogestad, Ian Postlethwaite, Oct 26, 2005, Technology & Engineering, 574 pages. Multivariable Feedback Control: Analysis and Design, Second Edition presents a rigorous, yet easily readable, introduction to the analysis and design of robust multivariable ....

Energy and Finite Element Methods in Structural Mechanics , Irving H. Shames, Clive L. Dym, 1995, Calculus of variations, 757 pages. This Book Is The Outcome Of Material Used In Senior And Graduate Courses For Students In Civil, Mechanical And Aeronautical Engineering. To Meet The Needs Of This Varied ....

Robust and Optimal Control , Kemin Zhou, John C. Doyle, Keith Glover, 1996, , 596 pages. For graduate-level courses and for professional reference dealing with robust linear control, multivariable design and H<sub>∞</sub> Control. Assumes prior knowledge of feedback and ....

Intelligent Structures , K.P. Chong, Oct 4, 2003, Architecture, 459 pages. .

Vibration Control of Active Structures An Introduction, Andr  Preumont, Jan 1, 2002, Science, 364 pages. This text is an introduction to the dynamics of active structures and to the feedback control of lightly damped flexible structures; the emphasis is placed on basic issues and ....

Spatial Control of Vibration Theory and Experiments, S. O. Reza Moheimani, Dunant Halim, Andrew J. Fleming, Jan 1, 2003, Science, 223 pages. Vibration is a natural phenomenon that occurs in a variety of engineering systems. In many circumstances, vibration greatly affects the nature of engineering design as it often ....

Proceedings of NOISE-CON ..., Volume 1 , , 1996, Technology & Engineering, 974 pages. .

Smart Structures and Materials: Passive damping and isolation, Volume 2720 Passive damping and isolation, , 1996, Science, 398 pages. .

Elementary mechanical vibrations , Austin Harris Church, 1948, Science, 200 pages. .

International Conference on Adaptive Structures and ..., Volume 8, Part 1997 , , 1998, Technology & Engineering, . .

Active control of vibration and noise presented at 1994 International Mechanical Engineering Congress and Exposition, Chicago, Illinois, November 6-11, 1994, American Society of Mechanical Engineers. Design Engineering Division, 1994, Science, 538 pages. .

Numerical Recipes in C: The Art of Scientific Computing, Book 4 The Art of Scientific Computing, William H. Press, 1992, C (Computer program language), 994 pages. The example books published as part of the Numerical Recipes second edition series contain source programs that exercise and demonstrate all of the Numerical Recipes ....

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