

Noise and Vibration Control Engineering: Principles and Applications



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Modal and Spectrum Analysis Data Dependent Systems in State Space Sudhakar M. Pandit Written for scientists and engineers dealing with real data - experimental or operational - this important work presents a untried and comparative treatment of modal and spectrum analysis of dynamic systems and structures. The book illustrates how the use of Data Dependent Systems (DDS) unites the two methods of analysis and simplifies many of the techniques, while providing more accurate, realistic, and easily interpreted results. Both time (modal analysis) and frequency domain (spectrum analysis) methods are systematically covered to demonstrate the relative merits and disadvantages of each. Supplements include extensive tables of results from real data, more than 50 figures (including unique plots of multivariate spectra and transfer functions) and a detailed bibliography. 1991 (0 471-63705-X) 415 pp. Vibration Problems in Engineering Fifth Edition William Weaver, Jr., Stephen P. Timoshenko, and Donovan H. Young "A substantial revision of the previous edition it remains a very good undergraduate text and handy reference work." - Journal of Sound and Vibration While keeping much of Timoshenko's classic work on vibration theory intact, this Fifth Edition features new information on powerful, modern computational techniques. Written in a style that gives concrete physical meaning to terms and equations, the current edition includes such enhancements as revised problems, examples of applications, and computer programs. Highlights include a thorough presentation of multidegree of freedom systems using flexibility and stiffness formulation; vibration of continuous systems; a new chapter on the finite-element method; plus matrix and numerical techniques for problem solving. 1990 (0 471-63228-7) 610 pp.

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