



Parametric Random Vibration

By Raouf A. Ibrahim

Dover Publications. Paperback. Book Condition: New. Paperback. 352 pages. Dimensions: 9.1in. x 6.1in. x 0.7in. Coherent and systematic, this text explores the behavior of linear and nonlinear dynamical systems subject to parametric random vibrations, by means of the theory of stochastic processes, stochastic differential equations, and applied dynamics. It distills decades of research to formulate new stochastic stability theorems and analytical techniques for determining the random response of nonlinear systems. In addition, it resolves controversies and paradoxes related to the interpretation of certain stochastic processes and the use of analytical methods. After a brief overview of parametric vibration and its subclasses, the text surveys the fundamental concepts of random processes and their calculus rules, emphasizing the main elements necessary for the analysis of parametric vibration problems. Subsequent chapters address the stability and response analyses of linear and nonlinear systems with random coefficients. The final chapter presents an extensive compilation of experimental results from the literature of the field. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.



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