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most machines and structures are required to operate with low levels of vibration as smooth running leads to reduced stresses and fatigue and little noise this book provides a thorough explanation of the principles and methods used to analyse the vibrations of engineering systems combined with a description of how these techniques and results can be applied to the study of control system dynamics numerous worked examples are included as well as problems with worked solutions and particular attention is paid to the mathematical modelling of dynamic systems and the derivation of the equations of motion all engineers practising and student should have a good understanding of the methods of analysis available for predicting the vibration response of a system and how it can be modified to produce acceptable results this text provides an invaluable insight into both

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the two volume work engineering vibration analysis is devoted to problems on vibration theory analysis which is currently one of the fundamental courses in mechanical engineering departments at technical universities the first volume is devoted to systems with a finite number of degrees of freedom and continuous systems are analyzed in the second in the first part of each volume problems are posed and in the second part the detailed solutions to these problems are dealt with conventional and advanced problems requiring deeper knowledge of the vibration theory are analyzed in particular problems are formulated associated with the determination of frequencies and vibration modes the study of free and forced vibrations as well as with parametric and nonlinear vibration analysis the problems associated with determination of critical parameters dynamic stability and with random vibrations are also considered the algorithms for their solutions are presented with probability characteristics calculation and a reliability estimation probability of non failure operation of the corresponding mechanical system

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