

The Properties of Vibrating Systems, Eigenvalues and Eigenvectors

1. Introduction

We have seen that the equations of motion for lumped parameter systems can be derived by use of free body diagrams (FBD) and Newton's second law of motion. We now look at alternative methods, for derivation of the equations of motion, which may be more convenient when dealing with systems with many degrees of freedom (MDOF).

The dynamic behavior of a structure or system may be modelled in terms of either its stiffness or its flexibility. Thus, the equations of motion may be formulated on the basis of either the stiffness matrix $[k]$ or the flexibility matrix $[d]$. In the stiffness formulation, forces are expressed in terms of displacements, as follows:

$$\{f\} = [k]\{x\} \quad (1)$$

Thus, for an undamped, unforced vibrating system, the differential equations of motion may be expressed as follows:

$$[m]\{\ddot{x}\} + [k]\{x\} = 0 \quad (2)$$

In particular, for an undamped, unforced two DOF vibrating system, the differential equations of motion may be expressed in full, in matrix notation, as follows:

$$\begin{bmatrix} m_{11} & m_{12} \\ m_{21} & m_{22} \end{bmatrix} \begin{Bmatrix} \ddot{x}_1 \\ \ddot{x}_2 \end{Bmatrix} + \begin{bmatrix} k_{11} & k_{12} \\ k_{21} & k_{22} \end{bmatrix} \begin{Bmatrix} x_1 \\ x_2 \end{Bmatrix} = \begin{Bmatrix} 0 \\ 0 \end{Bmatrix} \quad (3)$$

On the other hand, in the flexibility formulation, displacements are expressed in terms of forces as follows:

$$\{x\} = [d]\{f\} \quad (4)$$

Thus, for an undamped, unforced vibrating system, the differential equations of motion may be expressed as follows:

$$[d][m]\{\ddot{x}\} + [I]\{x\} = 0 \quad (5)$$

With $[I]$ being the identity matrix, it should be evident from equations (2) and (5) that

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Vibrating Systems R. F. Chisnell,1966-01-01 **Isospectral Vibrating Systems** Ranjan Ganguli,2021-08-10 This book presents an isospectral approach for several important mechanical vibrating systems Discrete and continuous isospectral systems are discussed using a simple multi degree of freedom spring mass system followed by illustration of isospectral beams and their solution through evolutionary computing Next it addresses axially loaded Euler Bernoulli beams and aims to find isospectral counterparts of these systems The practical application of these isospectral systems for vibration testing and for finding new closed form solutions is discussed A considerable part of the book is devoted to isospectral rotating beams and their non rotating analogs including Rayleigh beams Aimed at researchers and graduate students in mechanical aerospace civil automotive ocean engineering especially mechanical vibrations this monograph Discusses isospectral vibrating systems to aid vibration testing and computational analysis Explores isospectral analogs between rotating and non rotating structures Provides simpler isospectral beams for vibration testing and for 3D printing Uses firefly optimization method and electromagnetism inspired optimization method to find isospectral systems Shows the use of isospectral systems to find new closed form solutions using an indirect approach **Lambda-Matrices and Vibrating Systems** Peter Lancaster,2011-11-30 Features aspects and solutions of problems of linear vibrating systems with a finite number of degrees of freedom Starts with development of necessary tools in matrix theory followed by numerical procedures for relevant matrix formulations and relevant theory of differential equations Minimum of mathematical abstraction assumes a familiarity with matrix theory elementary calculus 1966 edition **Theory of Vibrating Systems and Sound** Irving Bardshar Crandall,1926 *International Mathematical News* ,1961 Issues for Dec 1952 include section Nachrichten der sterreichischen Mathematischen Gesellschaft **SV. Sound and Vibration** ,1988 **Real-Time Structural Health Monitoring of Vibrating Systems** Basuraj Bhowmik,Budhaditya Hazra,Vikram Pakrashi,2022-09-22 Targeted at researchers and practitioners in the field of science and engineering the book provides an introduction to real time structural health monitoring Most work to date is based on algorithms that require windowing of the accumulated data this work presents a coherent transition from the traditional batch mode practice to a recently developed array of recursive approaches The book mainly focuses on the theoretical development and engineering applications of algorithms that are based on first order perturbation FOP techniques The development of real time algorithms aimed at identifying the structural systems and the inflicted damage online through theoretical approaches paves the way for an in depth understanding of the discussed topics It then continues to demonstrate the solution to a class of inverse dynamic problems through numerically simulated systems Extensive theoretical derivations supported by mathematical formulations pivoted around the simple concepts of eigenspace updates forms the key cornerstone of the book The output response streaming in real time from multi degree of freedom systems provide key information about the system s health that is subsequently utilized to identify the modal

parameters and the damage in real time Damage indicators connotative of the nature instant and location of damage identified in a single framework are developed in the light of real time damage case studies Backed by a comprehensive assortment of experimental test beds this book includes demonstrations to emulate real life damage scenarios under controlled laboratory conditions Applicability of the proposed recursive methods towards practical problems demonstrate their robustness as viable candidates for real time structural health monitoring

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