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There are many books on finite element methods but few give more than a brief description of their application to structural vibration anal-

## **Chapter 16 - Structural Dynamics**

Vibration is study of oscillatory motions. The ultimate goals of this study are to determine the effect of vibration on the

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performance and safety of systems, and to control its effects. With the advent of high performance machines and environmental control, this study has become a part of most engineering curricula.

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The subject of vibration is introduced here in a relatively simple manner. The chapter begins with a brief history of vibration and continues with an examination of its importance. The various steps involved in vibration analysis of an engineering system are outlined, and essential definitions and concepts of vibration are introduced.

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Modal analysis using FEM. The goal of modal analysis in structural mechanics is to determine the natural mode shapes and frequencies of an object or structure during free vibration. It is common to use the finite element method (FEM) to

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perform this analysis because, like other calculations using the FEM, the object being analyzed can have...

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equation whose solution for the displacement consists of a homogeneous solution and a particular solution. The homogeneous solution is

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the solution obtained when the right-hand-side is set equal to zero. A number of useful concepts regarding vibrations are available when considering the free vibration of a mass; that is when  $F(t) = 0$ .

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numerical solution of differential equations, finite differences, finite elements, boundary elements, relaxation techniques, and so on. In this topic, we will demonstrate the Finite Element Method (FEM) as a typical powerful

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approach which can handle vibration analysis.

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the chapter 1 is a “reminder” of  
vibration fundamentals through the  
prism of deriving of equations of motion.

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Author mentions that “the success of the analysis is de-

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## **Fundamentals of Vibration**

Summery. The modern approach to vibrations emphasizes analytical and computational solutions that are enhanced by the use of MATLAB. The

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text covers single-degree-of-freedom systems, two-degree-of-freedom systems, elements of analytical dynamics, multi-degree-of-freedom systems, exact methods for distributed-parameter systems,...

## **Finite Element Vibration Analysis**

amplitude arbitrary associated



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autocorrelation function boundary  
conditions calculate characteristic  
equation coefficients complex conclude  
Consider the system constant  
continuous systems coordinates  
corresponding curve damping defined  
denoted differential equation discrete  
systems eigenfunctions eigenvalue  
problem eigenvectors elements equal to

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zero equations of motion equilibrium  
point ergodic Example FIGURE Fourier  
transform fundamental frequency Hence  
inertia initial conditions Inserting ...

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1.2 Modeling issues. Modeling is usually  
95% of the effort in real-world

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mechanical vibration problems; however, this course will focus primarily on the derivation of equations of motion, free response and forced response analysis, and approximate solution methods for vibrating systems.

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