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Modal Analysis for
MDOF vibrations
Part-4/4: Solved
Example of Damped
Forced Vibration

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Modal Analysis |
MDOF System |
Structural Analysis
and Earthquake
Engineering Modal
analysis of MDOF
Systems - Part 1
~~Modal Analysis for
MDOF vibrations
Part 3/4: Solved
Example of
Undamped Forced
Vibration 16-MULTI-D
EGREE-OF-FREEDOM-~~

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SYSTEMS (MDOF)-

Introduction-

Equation of motion-

Mathematical model

MDOF system forced

vibration ~~27 MDOF~~

~~Forced Undamped~~

~~Vibrations~~

Mechanical Vibration:

MDOF Deriving

Equations of Motion

(A Quick Way)

Mechanical

Vibrations 36 - Forced

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Vibrations of MDOF
Systems Introduction
to MDOF Systems
(1/3) - Structural
Dynamics Mechanical
Vibrations 42 - Modal
Analysis 4 - Damped
MDOF Systems Modal
analysis in multi
degree
vibration_Part 1 22.
Finding Natural
Frequencies /u0026
Mode Shapes of a 2

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Example

~~Analysis Of~~
DOF System

Weblecture 3.5

Frequency Response

Function of MDOF

Systems

W07M01 Multi

Degree of Freedom

Systems ~~ME/EMA 540~~

~~Module 02a Multi-~~

~~Degree of Freedom~~

~~(MDOF) Systems and~~

~~the Eigenvalue~~

~~Problem Lecture 18:~~

Examples on MDOF

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~~EMA 545 Module 05g
MDOF Frequency
Response (Direct FRF)
Damped~~

Lecture 23: Rigid
Body Modes Modal
Analysis for MDOF
vibrations Part-2/4:
Damped Forced
Vibrations Example
Analysis Of M dof
Forced
Example Analysis of
MDOF Forced

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Damped Systems
ASEN 3112 Lecture 22
– Slide 1 ASEN 3112
- Structures Objective

This Lecture
introduces damping
within the context of
modal analysis. To
keep the exposition
focused we will
primarily restrict the
kind of damping
considered to be
linearly viscous, and

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Example

light. Analysis Of

Mdof Forced

[PDF] Example

Damped
Analysis of MDOF

Forced Damped

Systems ...

Example Analysis Of

Mdof Forced Damped

Systems The

homogeneous

solution is the free

vibration response,

and its determination

is often necessary

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before the forced response can be determined. The free vibration analysis of an MDOF system is significantly more complicated than the free vibration analysis of a one or two-degrees-of-freedom system.

Example Analysis Of
MDOF Forced Damped

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Example

Systems Of

A Example of
undamped forced
vibration of multi

degree of freedom
system is solved

using modal analysis.

This explain the
complete procedure
to solve MDOF sy...

Modal Analysis for
MDOF vibrations

Part-3/4: Solved ...

Page 13/34

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In the analysis below, for a proper choice of generalized coordinates, known as principal or natural coordinates, the system of n -ODE describing the system motion is independent of

ME617 - Handout 7
(Undamped) Modal
Analysis of MDOF

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Systems Of

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Analysis Of M dof
Forced Damped

Systems Example

Analysis Of M dof
Forced Damped

Systems different
degrees of freedom
in the MDOF system.

For instance, if you
are solving a 2-DOF
system, you might
end up with

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something like (when solving for the first mode): $f_{11} - 2f_{21} = 0$, only defining a ratio between amplitudes of f_{11} and f_{21} (for

Example Analysis Of
MDOF Forced Damped
Systems

Example: Forced
Vibration of Damped
MDOF using

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Truncated Modal

Analysis 1) Find the
overturning moment
at the base of the

reinforced concrete
structure below using
modal analysis.

Consider the effect of
truncation and
compare the answer
when considering the
first mode only. 2)

The structural
properties can be

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Example

expressed as: $y = L B 0 0$
 $C L I B 10 0 1 C w L B 2$

2. MDOF Modal
Response

Modal analysis • is a method for solving for both transient and steady state responses of free and forced MDOF systems through analytical approaches. • Uses the orthogonality

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Example

property of the modes to “decouple” the EOM breaking EOM into independent SDOF equations, which can be solved for response separately.

Introduction

Response of MDOF systems

$0 \leq Q = F(10)$ be a

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modified force
vector. Then write
 $M\ddot{U} + C\dot{U} + KU = F(t)$ as.
 $M \ddot{U} + C \dot{U} + K U = F(t)$ (11.a) or.

$$A\ddot{Y} + B\dot{Y} = Q(t) \quad (11.b)$$

where $A = M$, $B = C$, $Q = F(t)$,

$$B = C, \quad Q = F(t) \quad (12)$$

617 HD 11 Modal
Analysis of MDOF
Systems with Viscous
Damping L. San
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HD11 Damped MDOF
modal - TRIBGROUP
TAMU

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Modal analysis
formulation of 3DOF
forced vibration
system. Copy & Paste
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\$300 Per Day - FULL
TUTORIAL (Make
Money Online) -
Duration: 22:51. BIG
MARK Recommended

...

Modal analysis in
multi degree
vibration_Part 3a
(last part)

As an example, here
is a simple MATLAB

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Example

function that will calculate the vibration amplitude for a linear system with many degrees of freedom, given the stiffness and mass matrices, and the vector of forces f .

```
function X = forced_vibration(K,M,f,omega)  
% Function to calculate steady state  
amplitude of % a
```

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forced linear system.

Mdof Forced Dynamics and Damped Vibrations: Notes:

Multi-DOF vibrations

FREE VIBRATION OF
MDOF SYSTEMS

System without
Damping The

equation of motion
of a two-DOF system
in free vibration (no
external force) is

$m\ddot{u} + ku = 0$ The

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displacements of masses are the solution with an initial condition $u(0) = u_0$ and $\dot{u}(0) = \dot{u}_0$... analysis. If $C = 2\zeta T_c$ is not a ...

CHAPTER 10 FREE
VIBRATION OF MDOF
SYSTEMS System
without ...

Draw force body
diagram for the

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Example

Individual masses
and write the
equations expressing
the equilibrium of the
forces

>Response of a

MDOF System - An

Example m_1 m_2 m_3

k_1 k_2 k_3 x_1 x_2 x_3 $P_3(t)$ $P_2(t)$ $P_1(t)$ k_3 ($x_3 - x_2$) k_2 ($x_2 - x_1$) k_1 x_1

Mdof - SlideShare

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Example

5.4.7 Example

Problems in Forced Vibrations. Example

1: A structure is

idealized as a

damped spring mass system with stiffness

10 kN/m; mass 2Mg;

and dashpot

coefficient 2 kNs/m. It

is subjected to a

harmonic force of

amplitude 500N at

frequency 0.5Hz.

Get Free Example Analysis Of Dynamics and Vibrations: Notes: Forced Vibrations Damped

Analytical Modal
Analysis Modal
Analysis is the
process of
characterizing the
dynamic response of
a system in terms of
its modes of
vibration. Analytical
Modal Analysis

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depends on the generation of the equations of motion of a system through a finite element model. 3D model typically generated with CAD tool Import & mesh with FEA tool

Vibration and Modal
Analysis Basics
Using Laplace
transforms to solve a

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Example

spring-mass vibration system is demonstrated in the Laplace transform example section.

Vibration analysis often makes use of the frequency domain method, especially in the field of control theory, since the method is straightforward and systematic.

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