

Student Worksheet

Experiment A01

Student Name _____
Section _____

Date Submitted _____

This is also the cover page of your report.

Objectives

- Derive the following results for a multi-degree system:
 Equilibrium equations
 Mass matrix
 Stiffness matrix
- Find the Natural Frequencies
 Mode Shapes
 Free-vibration Response

Background

Introduction

Theory

Let the system in your lab manual be the spring-mass system depicted. It is assumed the undamped system.

- Derive all Equations.
- Derive/obtain/derive equations of motion, either by hand or in software package.

	Equation	Value
m	$m_1 + m_2 + m_3 + m_4$	0.005
k	$k_1 + k_2 + k_3 + k_4$	0
c	$c_1 + c_2 + c_3 + c_4$	0
f	$f_1 + f_2 + f_3 + f_4$	0.00

Obtaining Free-Vibration

- Plot response over time using the appropriate software. Report the first four or five natural frequencies. Is there any reason to believe significant physical effects to have had effect on natural frequency? If so

Phy 103n Lab Manual Answers

CL Gary



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