

ME370: ADAMS LAB

**Department of Mechanical Engineering,
IIT Bombay**

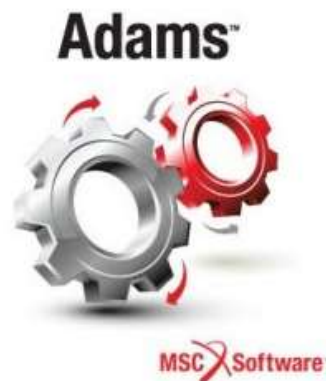


Session 9 Report

Group / Section: A8

Name: Ameya Halarikar

Roll Number: 200020023



Date: March 30, 2023

Given Information

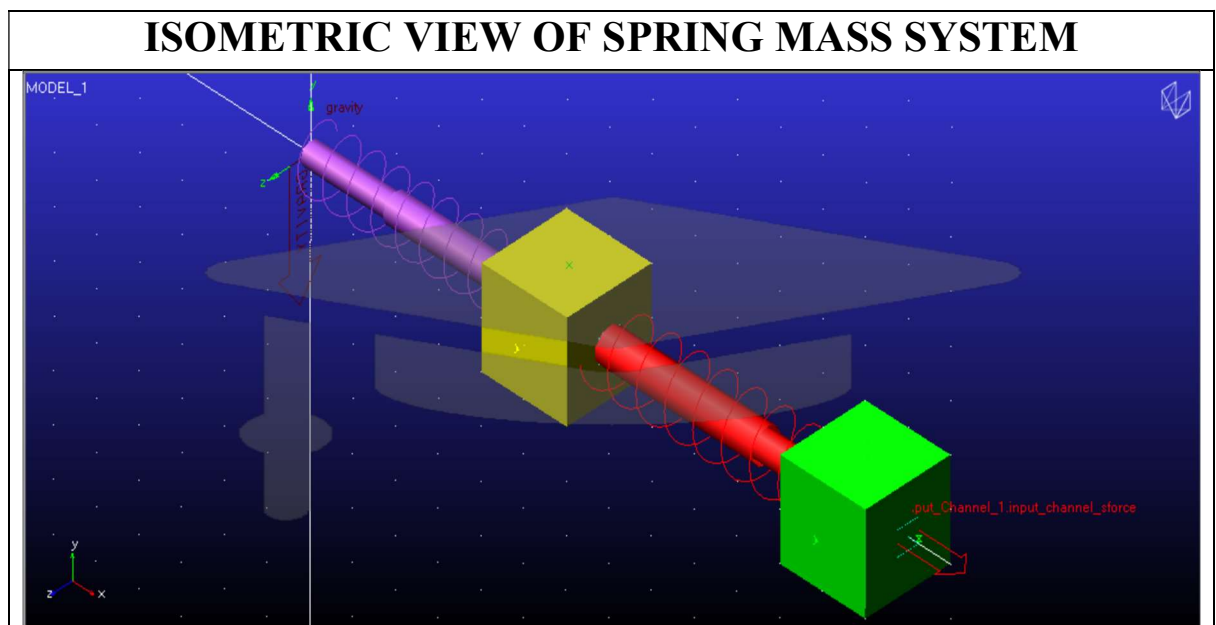
Information for Q1					
Parameters	Force Amplitude	m_1	m_2	k_1	k_2
Values	100 N	7	4	2	3

Information for Q2				
Parameters	Amplitude Y	m	k	c
Values	1m	6	7	4

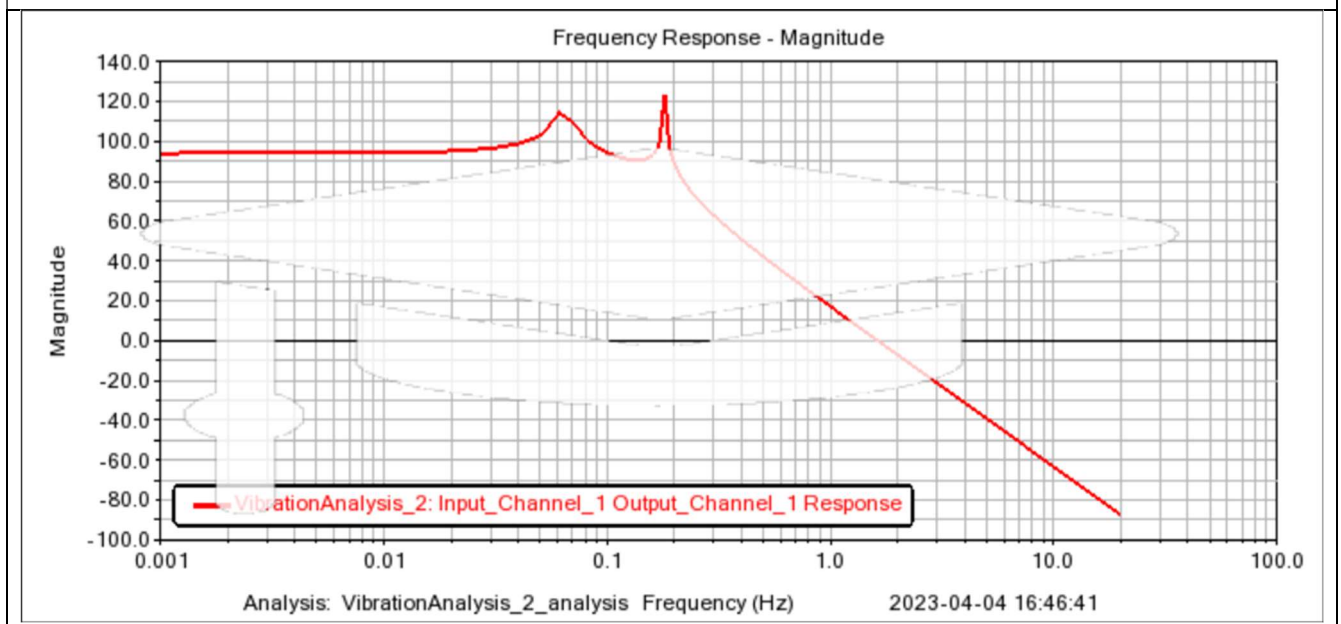
INPUTS:

- Range of Frequency Variation: [0 Hz, 20 Hz].
- Range of Damping Coefficient Variation: [10 Ns/m, 500 Ns/m].

Question 1 (Composite Spring Mass System)

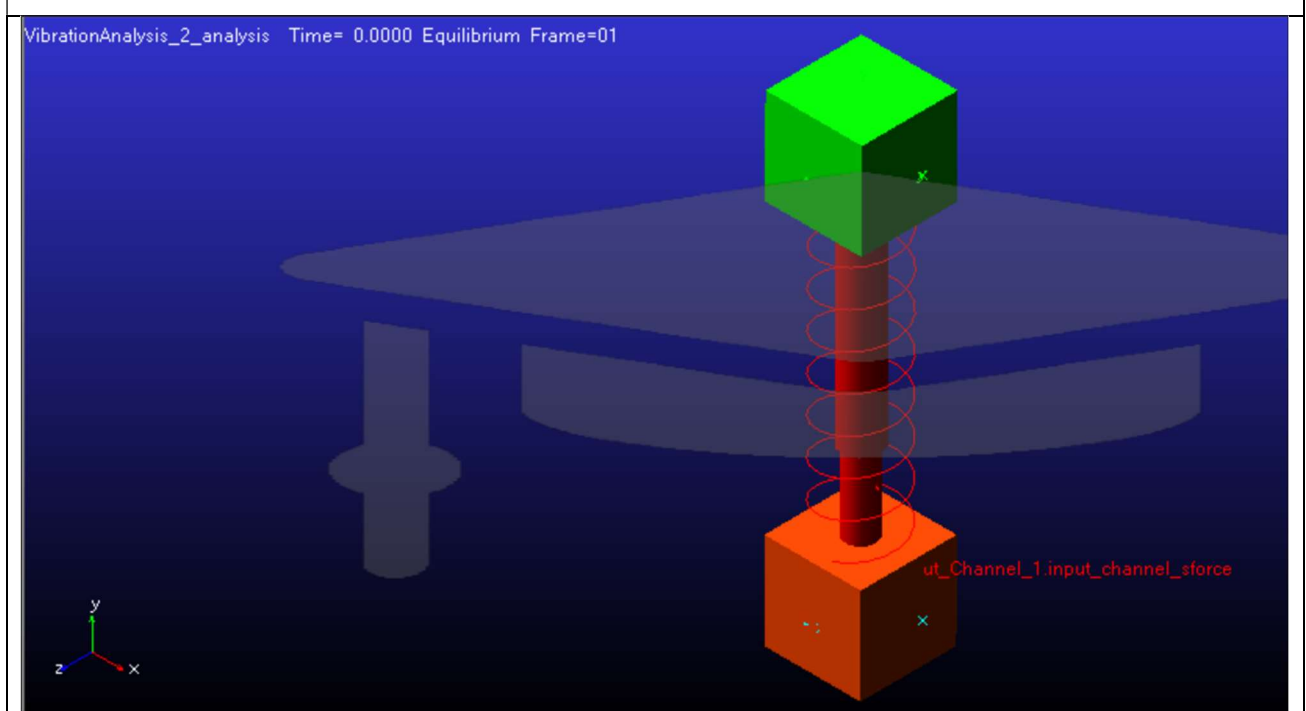


FREQUENCY RESPONSE OF MASS m_1

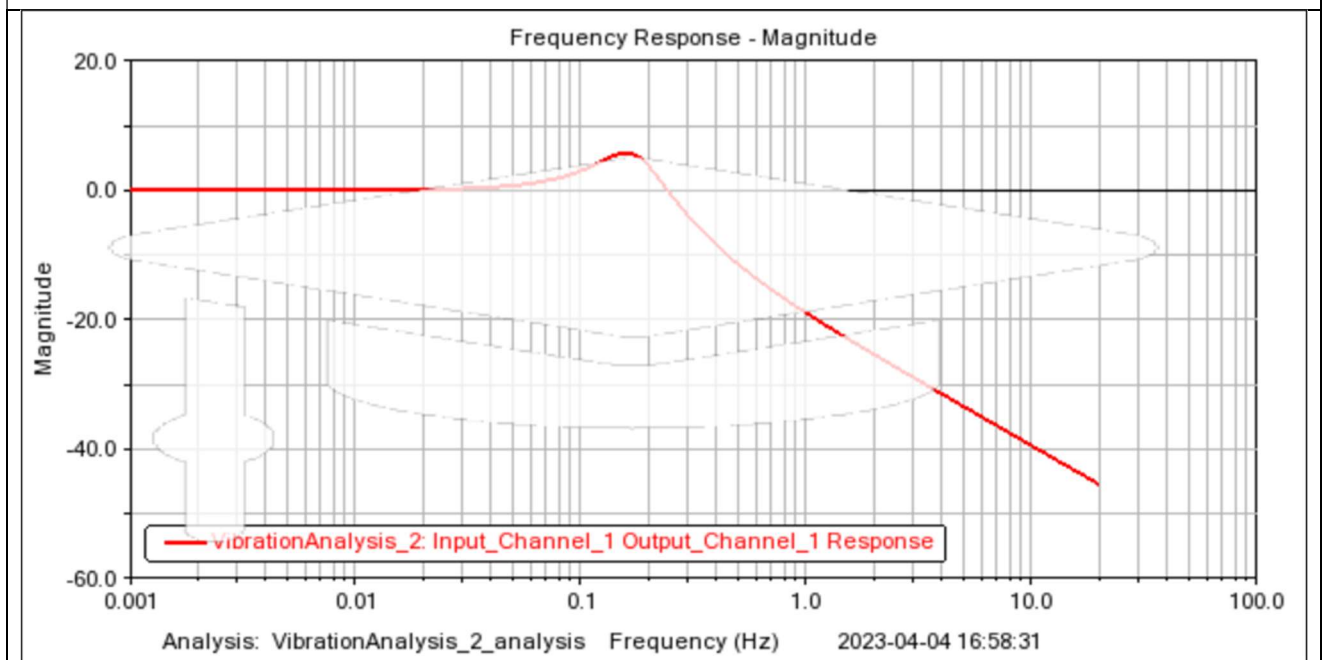


Question 2 (Spring Mass Damper System)

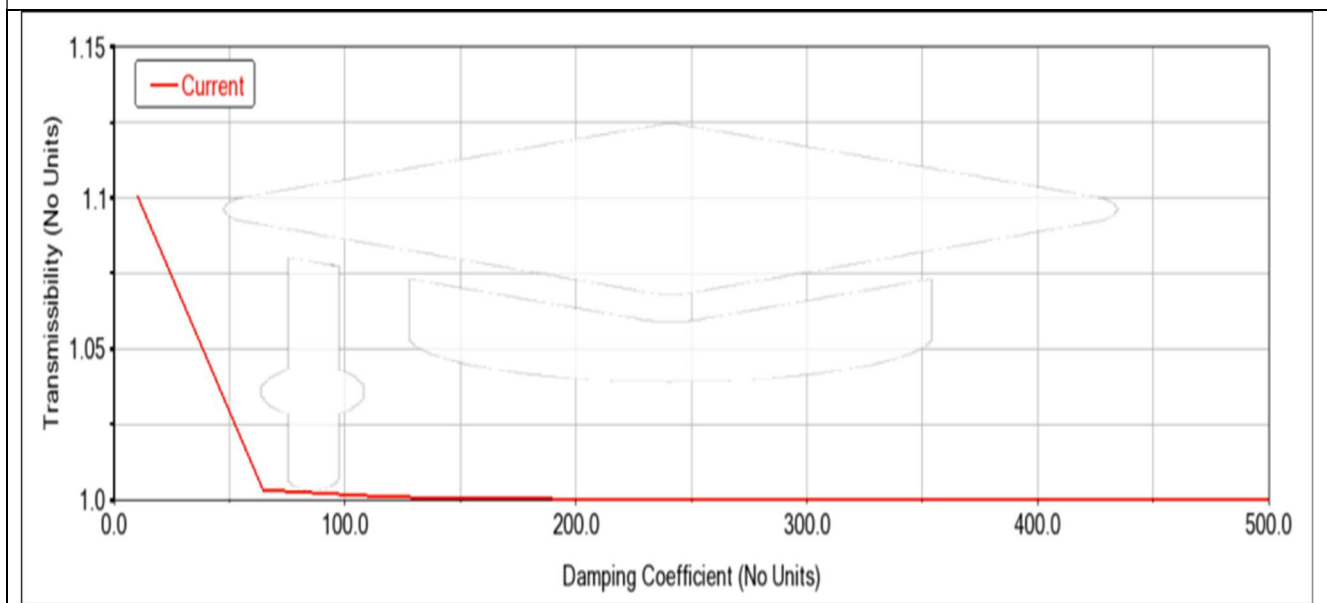
ISOMETRIC VIEW OF SPRING MASS DAMPER SYSTEM



VARIATION OF TRANSMISSIBILITY WITH FREQUENCY



VARIATION OF MAXIMUM VALUE OF TRANSMISSIBILITY WITH DAMPING COEFFICIENT



—X—X—X—X—X—X—X—X—**END**—X—X—X—X—X—X—X—X—