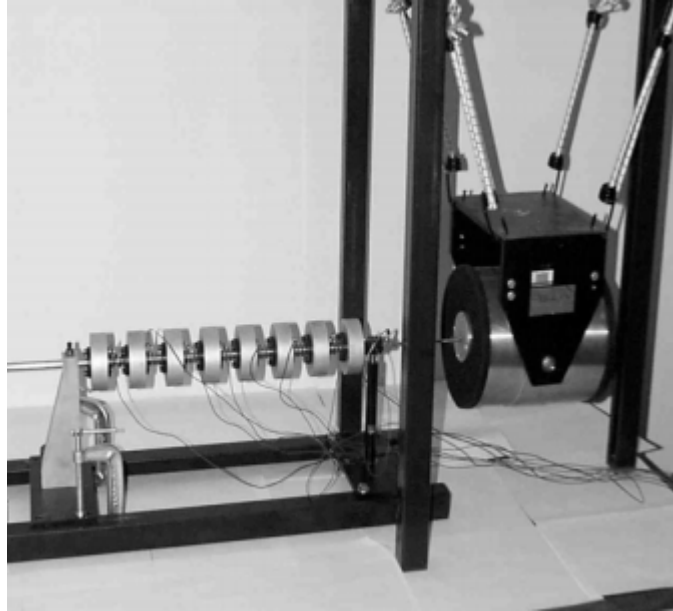


10th Class Exercise



Recall the 8-dof system we studied in the beginning of the semester. You have a numerical model for this system. You also have the measured natural frequencies for the first seven modes. Assume that the mass of each mass is known with certainty, and calibrate the stiffness coefficients for the mass #3, 4 and 5 to achieve the best agreement between the predicted and measured natural frequencies.