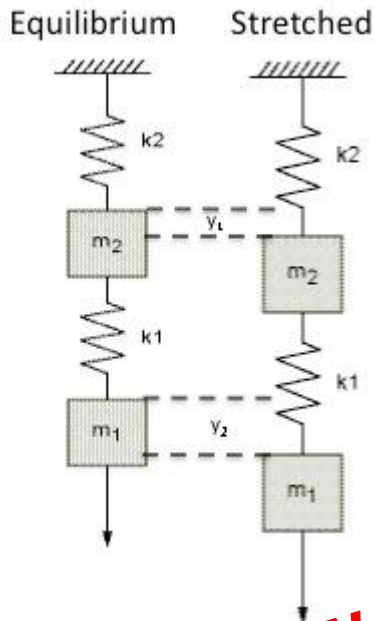


Experiment-VII

Submit the e-record for the following.

1. Explain displacements of the masses in the following system.



2. Write the equations involved in sprung mass and unsprung mass displacement in a quarter car model. Write the assumptions on the model to reduce it as $X'' + AX = 0$.
3. Can we extend the unsprung mass displacement of a quarter car to half car and full car, if it is so model the same.

E-record Format:

1. Title of the experiment
2. Aim
3. Mathematical Background
4. Matlab code
5. Output