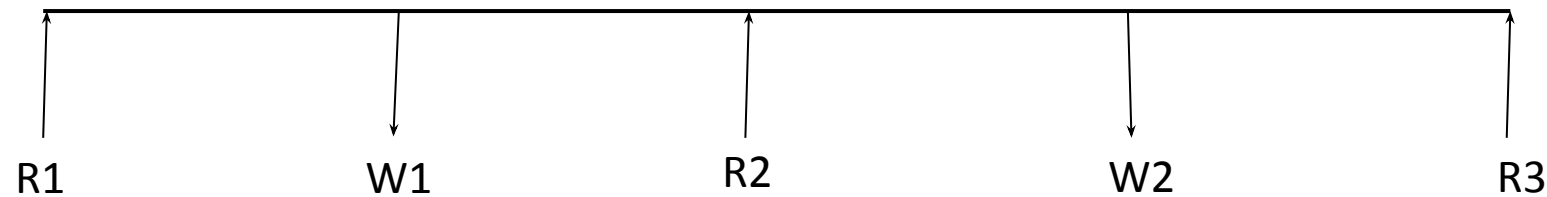


SFBM calculations for simply supported beams

TAs
Kishore
Vivek

Load the weights in the rack, and note down the forces and deflections at the point of interest.

The system configuration is as follows:



1. Calculate R1, R2 and R3 for various cases of loading.
2. Calculate the deflections at points of weight suspension.
3. Plot the shear force variation across the beam.
4. Plot the bending moment variation across the beam.

Additional

You can perform FE simulation to get the deflection.

- Compare the analytical and experimental results and show reasons of inaccuracies for the same.
- Report can be handwritten scanned properly.