

## CE 8930 – Structural Health Monitoring, Spring 2014

### 9<sup>th</sup> Class Exercise

Recall Group Assignment 9, which involved long-term monitoring campaign for a beam that is being continuously damaged. In this class exercise, groups are asked to extract two features from their experimental measurements and plot these features against each other.

Recall that when the bottle attached to the tip of the cantilever was full, the beam was considered to be 100% healthy. Your group must have recorded the time steps when 25%, 50% and 75% of the water was lost. Each group is asked to identify these four regions and plot the data points corresponding to these regions with different colors.



Figure 1: The cantilever beam with mass loading.