



VIRTUAL SMART STRUCTURES AND DYNAMICS LAB

Experiment 2

**Identification of High Frequency axial Modes of Beam in
"Free-Free" Condition using Electro-mechanical
Impedance(EMI) Technique**

POST EXPERIMENT QUIZ QUESTIONS

- 1) Plot graph of conductance v/s frequency in Excel.
- 2) Calculate Resonant Frequency of the beam from the above plot.
- 3) From the plot, identify the natural frequency of the beam and compare the frequency obtained with theoretical frequency.