Measuring Natural Frequencies

Beam 1 data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | Average |
| Beam thickness (mm) | 4.79 | 4.83 | 4.78 | 4.83 | 4.88 | 4.822 |
| Width (mm) | 19.06 | 19.01 | 19.04 | 19.01 | 18.99 | 19.022 |
| Length (mm) | 424 | 424 | 424 | 424 | 424 | 424 |

|  |  |
| --- | --- |
| Properties of the beam |  |
| Youngs Modulus (GPa) | 200 |
| Density (kg/m3) | 7800 |

|  |  |
| --- | --- |
|  | Least count |
| Thickness and width are measured using Vernier caliper | 0.01mm |
| Length is measured using meter scale. | 0.2mm |