

**REACTIONS AND FIXING MOMENTS OF A FIXED BEAM AND A PROPPED CANTILEVER**

**Results**

**Table 1: Results for Experiment 2 (fixed beam)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Distance A (mm)** | **Load W (N)** | **Moment arm Force (N)** | **MA (N)** | **RB (N)** |
| **40** | **4.9** |  |  |  |
| **80** | **4.9** |  |  |  |
| **120** | **4.9** |  |  |  |
| **160** | **4.9** |  |  |  |
| **200** | **4.9** |  |  |  |
| **240** | **4.9** |  |  |  |
| **280** | **4.9** |  |  |  |
| **320** | **4.9** |  |  |  |
| **360** | **4.9** |  |  |  |

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**Table 2: Results for Experiment 2(Propped Cantilever)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Distance A (mm)** | **Load W (N)** | **Moment arm Force (N)** | **MA (N)** | **RB (N)** |
| **40** | **4.9** |  |  |  |
| **80** | **4.9** |  |  |  |
| **120** | **4.9** |  |  |  |
| **160** | **4.9** |  |  |  |
| **200** | **4.9** |  |  |  |
| **240** | **4.9** |  |  |  |
| **280** | **4.9** |  |  |  |
| **320** | **4.9** |  |  |  |
| **360** | **4.9** |  |  |  |

**Discussion/Analysis**

1. What is the relationship between the experimental and theoretical values obtained?
2. If it is needed to draw load versus MA and RB, explain how the experiment procedure will be changed and explain how to obtained critical load from the graph?
3. What are the precautions that should be taken in this experiment to ensure its accuracy?

**Conclusions**

Refer to the objective.

**References**/**Appendices**

1. Text book, reference books from the library or electronic references from the internet.
2. Related photo or plate due to the experiment.