

Product Name :
Deformation Of Curved-Axis Beams

Product Code :
TN521



Description :

Deformation Of Curved-Axis Beams

Technical Specification :

Deformation of Curved-Axis Beams

The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:

Bending behaviour of a curved-axis beam

Circular beam

Semi-circular beam

Quadrant beam

Application of the principle of virtual forces (the force method) to calculate deformation

Second moment of area

Comparison of calculated and measured deformations

Specifications:

Elastic deformation of curved-axis beams under load

3 different beams with the same cross-section: circular beam, semi-circular beam, quadrant beam

Support block to fix the quadrant beam

Pillar with support for mounting the circular or semi-circular beam

3 dial gauges to record the horizontal and vertical deformation

Storage system to house the components

Technical Data:

Curved-axis beam

Radius: 150mm

Cross-section Width x Height: 20x5mm

Material: steel, galvanised

Dial gauges

Measuring range: 0...20mm

Graduation: 0,01mm

Weights

1x 1N (hanger)

2x 2N

1x 5N

1x 10N

4x 20N

Dimensions and Weight

Length x Width x Height: 400x300x650mm

Weight: 21kg

Length x Width x Height: 1170x480x178mm (storage system).

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