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Product Name :
Bending Stress In A Beam Apparatus

Product Code :
LBNY-0005-13900032



Description :

An inverted aluminium T-beam is mounted between two simple supports on knife edges. The load onto the T-beam is applied using a fine screw jack mechanism with integral load cell. A standalone experiment for determining the bending stresses and strains across the surface of a T-beam. The load cell arrangement and supports create a three (3) point loading.

These strain gauges are paired with temperature compensation dummy gauges for output stability. A number of precision strain gauges are arranged on the T-beam specimen. Each strain gauge pair is numbered for accurate connection to the Interface.

Technical Specification :

Experimental Capabilities:

Comparison of theory with experimental results
Working with Strain gauges
Working with stresses and strains and their conversion
Second Moment of Area
Bending Stresses across a T-Beam section
Bending equation
Neutral axis.

Specification:

Strain gauge outputs to be made available to Interface
T-Beam to have strain gauges attached in measuring and temperature compensation pairs
Angle of load to be adjustable

Multiple load positions along T-Beam span available
500N load cell to apply load with integral cable for connection to Interface
Must be used with Interface
Must be used with universal Frame and Stand
Comprehensive instruction manual provided.



Laboratory Instrument India