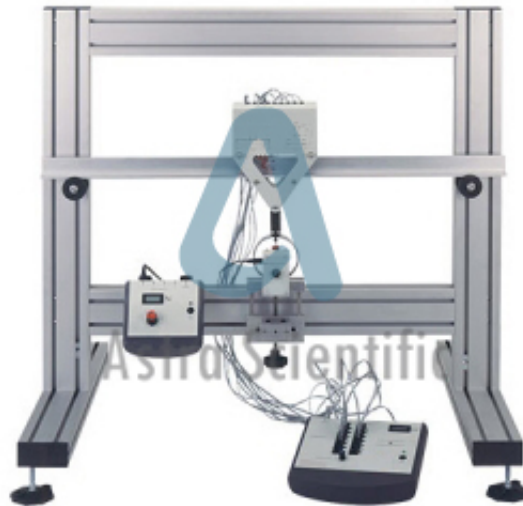


Product Name :
Bending Stress In a Beam with Data Acquisition

Product Code :
ASTSTRUCTURAL-0002



Description :

Bending Stress In a Beam with Data Acquisition

Technical Specification :

Description: An experimental apparatus to investigate the stresses and strains within a structure in relation to bending loads.

The experiment hardware is a T-beam that fits onto a Structures Test Frame. Students adjust a load cell that bends the beam and, when connected to the optional Digital Force Display, it measures the bending force. Strain gauges and a digital strain bridge measure the strains in the beam. Dummy strain gauges compensate for temperature variation and balance the strain bridges. The equipment includes a lead for connection to the Digital Force Display.

The Operation Manual provides details of the equipment including sample experiment results. The Operation Manual describes how to use the equipment and gives experiment procedures.

For extra 'virtual' experiments, can

supply the optional Structures Software, for use on a suitable computer. The virtual experiments simulate the tests that you do with the hardware. They also extend the choice of tests than that available using only the hardware, for example: higher loads, uniform loads or different test specimens. This extends the student's learning experience.

For automatic data acquisition of your experiment results, supplies the optional Automatic Data Acquisition Unit. Supplied as standard with Structures Software that displays and logs your experiment results and gives the extra virtual experiments.

Key features:

- High-quality structures Training module for students of mechanical, civil and structural engineering
- Allows safe and practical experiments into bending stress in a beam
- Realistic and verifiable experiment results
- Optional Structures Software package for extra 'virtual' experiments that simulate and confirm the results from your hardware and allow extended experiments
- Optional unit including Structures Software package for automatic data acquisition and virtual experiments.



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