



THE LAB EQUIPMENT

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Product Name :

Suspended Beam Bridge

Product Code :

SLE/EG/08



Description :

- The bridge has two outer 'anchor' sections, each on two supports.
- Load cells in the supports and bridge structure measure the reactions to the loads.
- They use textbook equations to predict the reactions, comparing them with measured results.
- The anchor sections each have a short cantilever that supports a short central suspended section.
- The four bridge supports include pointers that work with the scale on the platform for accurate positioning.
- This helps confirm the reliability of the textbook equations and the accuracy of the experiment results.
- This bridge design differs from some others in that it is statically determinate, yet may have large central spans.
- The load cells connect to the USB interface hub of the Structures platform for computer display and data acquisition.
- Students apply loads across to any position on the bridge and measure the resulting support reactions, and the internal reactions between the cantilever and suspended sections.

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