



THE LAB EQUIPMENT

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Product Name :

Simple Suspension Bridge

Product Code :

SLE/EG/06



Description :

Students apply loads, which change the cable tension.

This helps confirm the reliability of the textbook equations and the accuracy of the experiment results.

The theory shows the simplified parabola-based equation and the more realistic theory, based on the model.

They use textbook beam equations to predict the tension for any given load, comparing them to measured results.

This product includes additional masses so students may apply a uniformly distributed load (UDL) and a single point load.

The load cell connects to the USB interface hub of the Structures platform for computer display and data acquisition.

It also helps students understand the overwhelming influence of the deck mass against the relatively small loads such as vehicles passing over the bridge.

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