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Product Name :
Pin Join Truss Apparatus Data Acquisition

Product Code :
SCHOOL-STU680003



Description :

Pin Join Truss Apparatus Data Acquisition

Technical Specification :

An experimental apparatus to create a wide selection of pin-jointed frameworks and then investigate the effects resulting from applying loading forces to them. The experiment hardware fitted a Structures Test Frame. Students use stainless-steel members to build different pin-jointed frameworks. The members join by slotting the ends into bosses. The equipment includes two framework supports: a pivoting support, and a pivoting and rolling support. Each member has a strain gauge attached that connects to a digital strain bridge. A load cell applies loads to the structure at various angles. When connected to the optional Digital Force Display, the load cell measures the applied load. To apply loads simultaneously, extra load cells are available. A digital deflection indicator measures the deflection and the digital strain bridge shows the strains in the members. From this, students can calculate the forces in the members. The Operation Manual details of the equipment including sample experiment results. The Operation Manual describes how to use the equipment and gives experiment procedures. Included is a lead to connect the load cell to a Digital Force Display. Key features: High-quality structures training module for students of mechanical, civil and structural engineering Allows safe and practical experiments into pin-jointed frameworks Realistic and verifiable experiments results Optional Structures Software package for extra 'virtual' experiments that simulate and confirm the results from your hardware and allow extended experiments Optional unit with Structures Software package for automatic data acquisition and virtual experiments.

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