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Product Name :
Continuous And Indeterminate Beams Apparatus

Product Code :
LBNY-0005-13900042



Description :

Continuous and Indeterminate Beams Apparatus a fourth pier clamps a cantilever or the fixed end of a beam. A double pulley assembly provides vertical loading of the beam. Each pier caters for simply supported, or Continuous and Indeterminate Beams Apparatus and their beam attachments allow for rotation but no vertical movement during testing. Point loads and uniformly distributed loads can be applied to the beams using the set of calibrated weights and hangers supplied. Sinking supports can be studied due to the fact that each reaction pier has a height adjustment system and integral dial gauge attached. Three piers measure vertical reaction forces with their integral load cell which connect directly to the Interface.

Technical Specification :

Experimental Capabilities:

Study the way the constant c is affected by the type and position of the load

The principle of superposition

Single Point Loading and Uniformly Distributed Loads

Continuous Beams

To compare the measured and theoretical values

Study of the general formula for beam deflections in bending in the form $y = c \cdot WL^3 / EI$

Verification of the effect of changing the length of the beams

Indeterminate Beams

Cantilevers and Propped Cantilever

Sinking Supports.

Specification:

Beam deflection to be measured using a deflection indicator
To consist of three movable reaction supports, three test beams, load hangers, calibrated test weights
To have multiple load positions
Must be used with universal Frame and Stand Must be used with Interface
Comprehensive instruction manual provided.
Reactions and deflections monitored using Interface.



Laboratory Instrument India