Features

Tesca Roof Truss Apparatus is used to measure the deformation in elements of roof truss. Whenever a load is applied to a roof truss, its members undergo a strain.

This unit consists of a base structure which provides the support locations for the roof truss. Three metallic elements form a roof truss in a triangular shape. Load is applied from the top of the roof truss structure via a hanger. Each member has a dial gauge connected to it which shows the deformation produced due to applied load in each member.

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Specifications

- Evaluation of co-planar forces in the struts and tie of a basic roof truss
- Effect of changing tie bar length
- The apparatus consists of two rafter struts and a restraining tie mounted on a self contained, bench top base
- Both struts and tie incorporate linear, direct reading spring balances to measure forces
- Loading at the hinged apex by load hanger
- The tie length, and hence angle of truss, variable
- Struts and tie re-adjustable to original lengths
- An instruction manual for student and lecturer provided
- Set of weights

Experiments

- To compare experimental values of the forces in the struts and tie of a basic roof truss with theoretical predictions
- To observe the effect of changing the tie bar length

Note: Specifications are subject to change.

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