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Product Name : Thin Cylinder Experimer

Product Code : LBNY-0005-1760005



Description:

Internal pressure is applied to the cylinder by mean of a hydraulic hand pump. Pressure in the cylinder is indicated on a pressure gauge. A hand screw is attached to one end of the frame to operate a piston on one side of the cylinder. Thin Cylinder Experiment is used for studying the stresses in a thin wall cylinder. The strain gauges are fixed onto the cylinder at different angles. Each strain gauge is wired to form a full bridge with temperature compensation gauge and zero adjustment in a bridge box with strain gauge indicator. A thin wall aluminum alloy cylinder is mounted on a rigid steel frame. By applying the hand screw, only circumferential stress occurs on the cylinder or both circumferential and axial stresses occur.

Experiments:

Measurement of strains and stresses under internal pressures. Comparison of theoretical stresses and strains with experimental values. Determination of Youngâ, ¢s modulus an Poissons ratio.

Technical Specification :

Cylinder Outer diameter : 80 mm. Maximum internal pressure : 3.5 N/mm2. Length : 360 mm. a. Pressure gauge : 50 kg/cm2. b. Pressure gauge : 50 kg/cm2. Bridge box and strain indicator : 8 inputs. Strain gauges : 6 ea. at different angles. Power supply : 220V 1Ph 50Hz.

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