

Experiment

Objective:

To measure the stress and strain using strain gauge cantilever beam.

Apparatus:

Strain Gauge Training System



Figure 1. Apparatus

Theory:

Introduction:

Stress:

The internal force per unit area setup in the body is called stress. The maximum stress that a material can stand before its breakage is called the breaking stress or ultimate tensile stress.

Tensile means the material is under tension. The forces acting on it are trying to stretch the material.

Compression is when the forces acting on an object are trying to squash it.

Strain:

The ratio of extension to original length is called strain it has no units as it is a ratio of two lengths measured in meters.

Bending Stress:

The applied force is perpendicular to the longitudinal axis of the bar then this force per unit area is called bending stress.

Two types of bending are:

Positive Bending and Negative bending which are given below.

Strain Gauge Lab Manual

R Sandford



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