

Lab 04 – Beam Bending
Pre-Lab Assignment - AA/E 20401

Read the Lecture 04 and the Lab Manual pages 29-36, and answer the following questions:

1 – What is the overall purpose of this laboratory practice?

The purpose of this lab is to investigate the relationships between stress and moment, and load and deflection of a beam in pure bending.

2 – Describe how axial stress varies along the cross section of a beam. Show the equations for stress and strain as function of applied moment, and explain each component of the equations.

The axial normal stress increases linearly from zero at the neutral axis to a maximum at the outer surfaces of the beam.

If we consider that the only axial stress developing in the beam is the longitudinal σ_x , then the relation between the strain in equation 4.1 and the stress in equation 4.2 is such that:

$$\sigma_x = E \epsilon_{xx} \quad (4.4)$$

Therefore, from equation 4.3, we can get:

$$= \int_A \rho \sigma_x dA = \frac{E}{\rho} \int_A y^2 dA = M, \text{ giving} \\ \frac{1}{\rho} = \frac{M}{EI} \quad (4.5)$$

Where I is the area moment of inertia, defined by $I = \int_A y^2 dA$.

Placing back the relation defined in Eq. 4.1, we find:

$$\epsilon_{xx} = \frac{My}{EI} \quad (4.6)$$

Or:

$$\sigma_x = \frac{My}{I} \quad (4.7)$$

3 – What is a beam neutral axis?

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Katrin Zwirglmaier



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