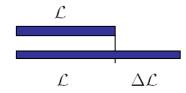
Lecture 16 - summary

Topic: How to measure and describe deformation Goal is to develop a mathematical language to describe deformation

Definition of strain: $\epsilon = \frac{\Delta \mathcal{L}}{c}$

$$\epsilon = \frac{\Delta \mathcal{L}}{\mathcal{L}}$$



Measurement of strain: Electrical, optical, mechanical, acoustical...

Strain gages: Measure deformation based on changes of electrical resistance R

$$\varepsilon = \frac{1}{\text{GF}} \frac{\Delta R}{R_0}$$

