

## Civil Engineering Materials NOTES

### Chapter 1: Introduction & Material Properties (Lectures 1 & 2)

#### Main Topics

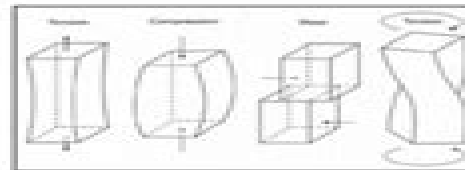
- Material behavior
- Performance issues
- Construction specifications
- Material selection cost vs safety

#### Different types of construction materials

- Cement
- Concrete
- Wood
- Steel
- Glass
- Aluminum
- Masonry
- Asphalt

#### Mechanical Properties

- Response to external loads
  - Tension
  - Compression
  - Shear
  - Torsion
- Loads cause deformation
- Stress = Force / Area
  - $\sigma = F_a / A$
- Strain = Deformation (Elongation) / Original Length
  - $\epsilon = dl / l_o = \sigma / E$  where  $dl$  = change of length (m, in)  $l_o$  = initial length (m, in)
- Stress causes Strain



#### Types of Behavior

- Elastic
  - Temporary recoverable deformation
  - Return to original shape after unload
  - Instant response to load
  - Linear: strain is proportional to stress
  - Nonlinear: strain is NOT proportional to stress
  - Modulus for Nonlinear behavior



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**Jessica J Manson**



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