Cheatography

ChE241 Cheat Sheet

by vv4nguye via cheatography.com/32836/cs/10177/

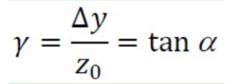
Tensile/Compressive Stress

 $\sigma = \frac{P}{A_0}$

P: load

Ao: Original cross-sectional area before loading

Shear strain

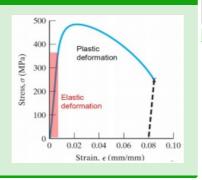


alpha: angular displacement Strain is dimensionless

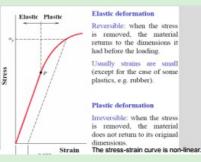
Shear stress

 $\tau = \frac{P_S}{A_0}$

Stress vs. Strain Curve

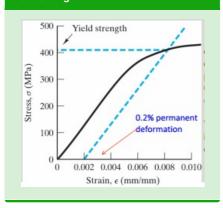


Elastic/plastic deformation



Tensile/Compressive strain

Yield strength



- $\epsilon = \frac{l l_0}{l_0} = \frac{\Delta l}{l_0}$
- E: Tensile/compressive strain I: length

C

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Not published yet.

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