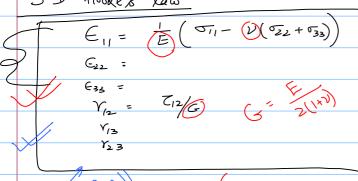
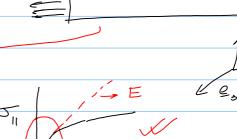
Stress-strain relation

Note Title 9/20/2022



Uniaxial loading:



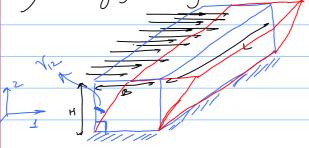


evenual looking!

Graph for uniaxial
$$\frac{d \sigma_{ij}}{d \varepsilon_{ij}} \Big|_{\varepsilon_{ij}=0} = \varepsilon$$

$$\mathcal{D} = -\frac{\epsilon_{22}}{\epsilon_{II}}$$

Physical significance of phear modulus: -



$$\frac{F}{E} = \frac{F}{LB} = \frac{F}{LB}$$

$$\frac{F}{C_{12}} = \frac{F}{C_{22}} = \frac{F}{C_{32}}$$

 $\frac{dZ_{12}}{dY_{12}} = G$ $Y_{12} = 0$

Bulk modulus of elasticity

$$k = -\frac{\Delta P}{\Delta V_{V}}$$

minus pign is kept here to obtain positive number)

K denote compromibility incomprembling

