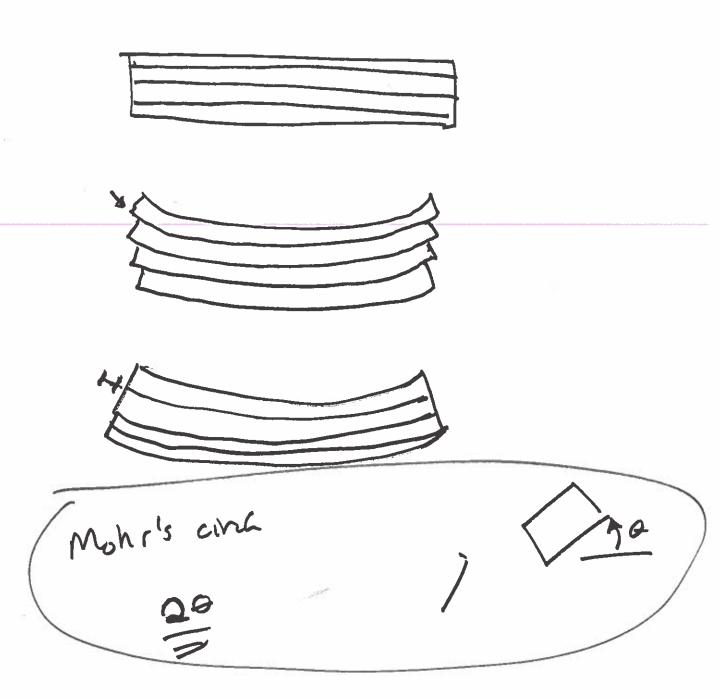


Why bending affects the transverse shear storers.



## Concentrations 5 tress notch 5 Macado shoulders head holes Stress raisurs: are geometric changes that cause violations to standard stress theory Stress concentrations: regions around stress raisers, when stress changes Stress concentration factors K = Than Stess at Kts = To Shew

Normal named shear stresses

Stress stress stresses

Heary

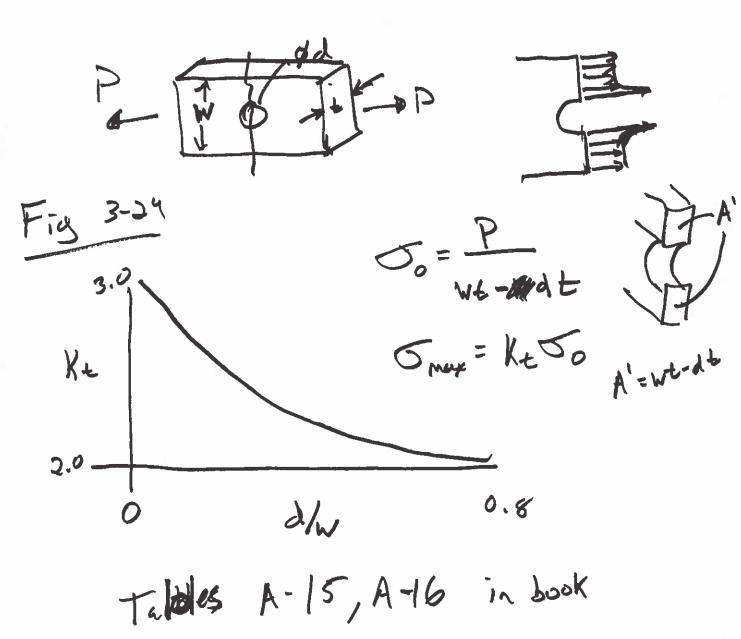
Ke, Kes: determined by experimentation

## Static Loading

Ductile Materials: Stress Con. factors are not generally recessary

if used, you are being conservation

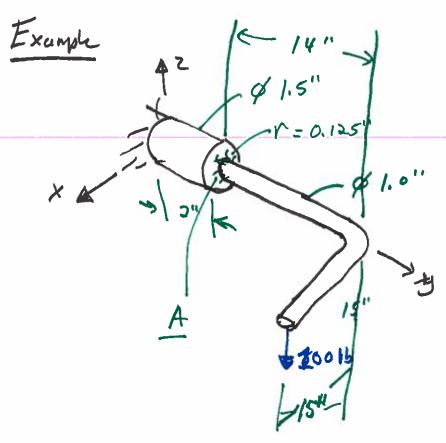
Brittle Maderials: Stress Con. factors are definitely needed



Notch Renember > K to bending Normal conservative by choosing K Equipulen Kb, bending isn't available

Kt, axid > Kx bending
generally

conserval => use Ke exial



Hardened Material

$$I = \frac{\pi d^4}{6u} \quad c = \frac{d}{2}$$

$$P/d = \frac{1.5}{1} = 1.5$$
 $K_{45} = 1.39$ 

$$\frac{r}{d} = \frac{10.125''}{2''} = K_{\pm} \approx 1.58$$
 $\frac{1}{2}$ 
 $\frac{1}{2}$ 
 $\frac{1}{2}$ 
 $\frac{1}{2}$ 
 $\frac{1}{2}$ 

Sheur