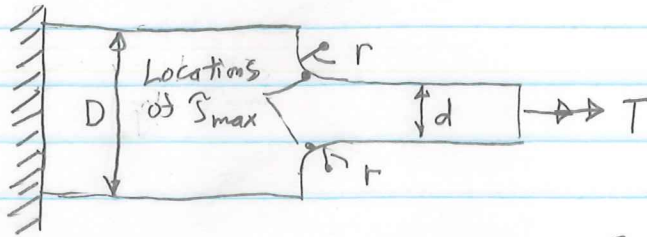


11. Stress concentration in circular shaft under torsion
(linearly elastic, homogeneous, isotropic material)



Shaft with diameter variation and fillets.

$$\text{Stress concentration factor} = K = \frac{\tau_{\max}}{\frac{Tc}{J}}$$

where c and J are for the smaller diameter ($c = \frac{d}{2}$)

