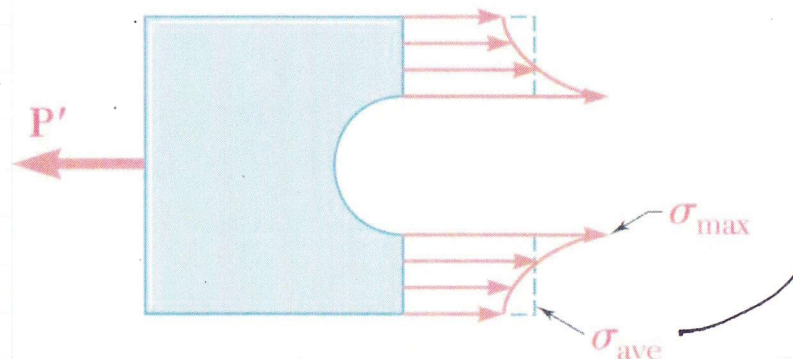
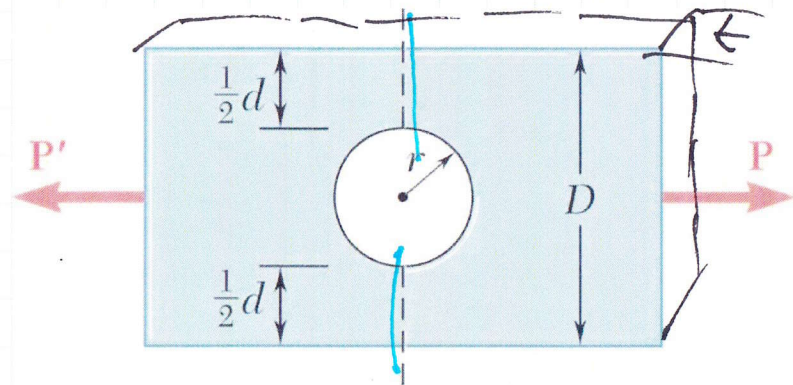


Stress Concentrations



Peterson

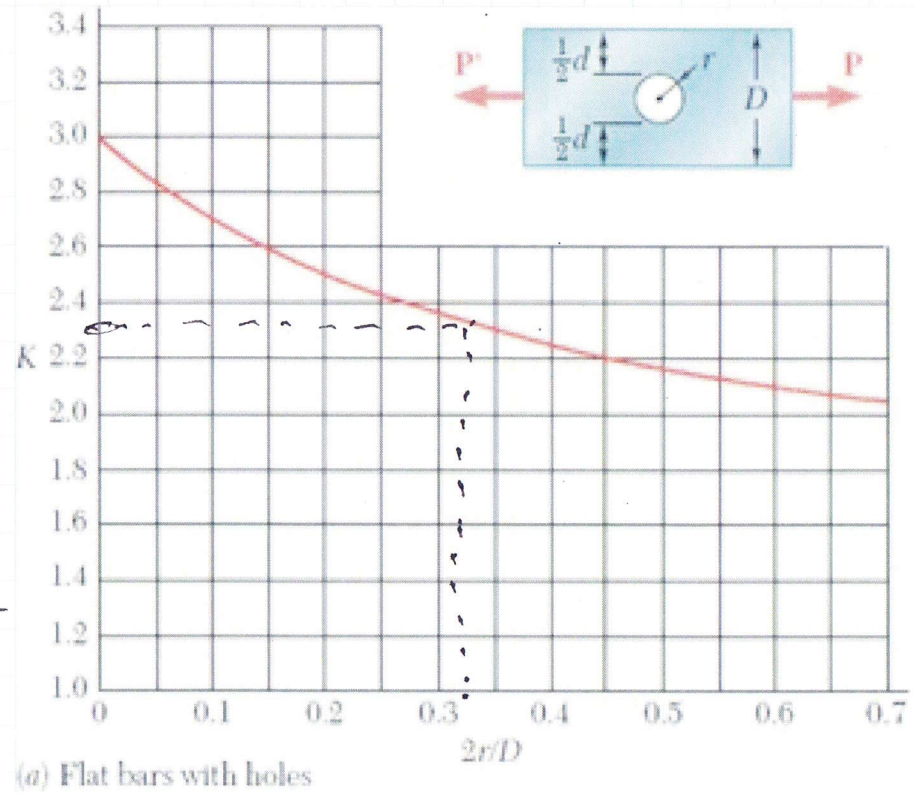
Finite Element Analysis

$$\sigma_{AVG} = \frac{P}{dt} = \frac{P}{(D-2r)t}$$

use the minimum cross-section

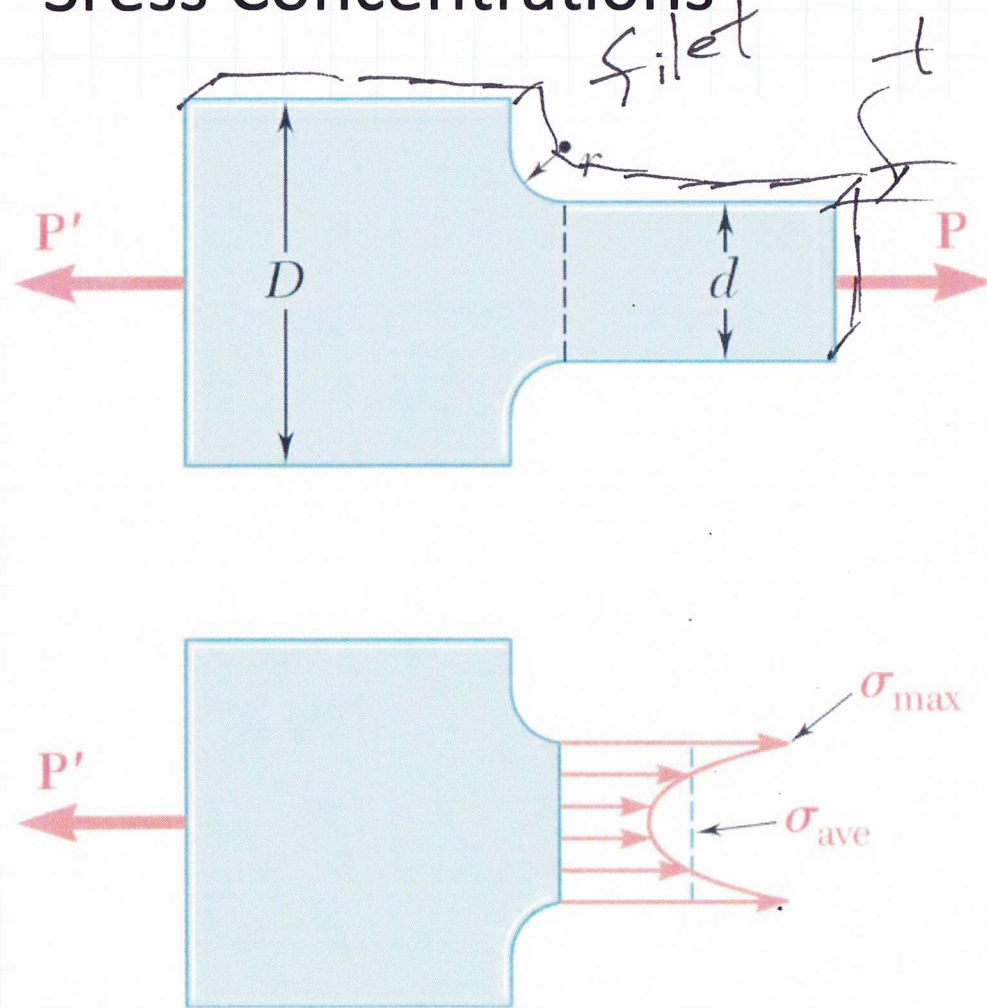
$$\sigma_{max} = K \sigma_{AVG}$$

stress concentration factor



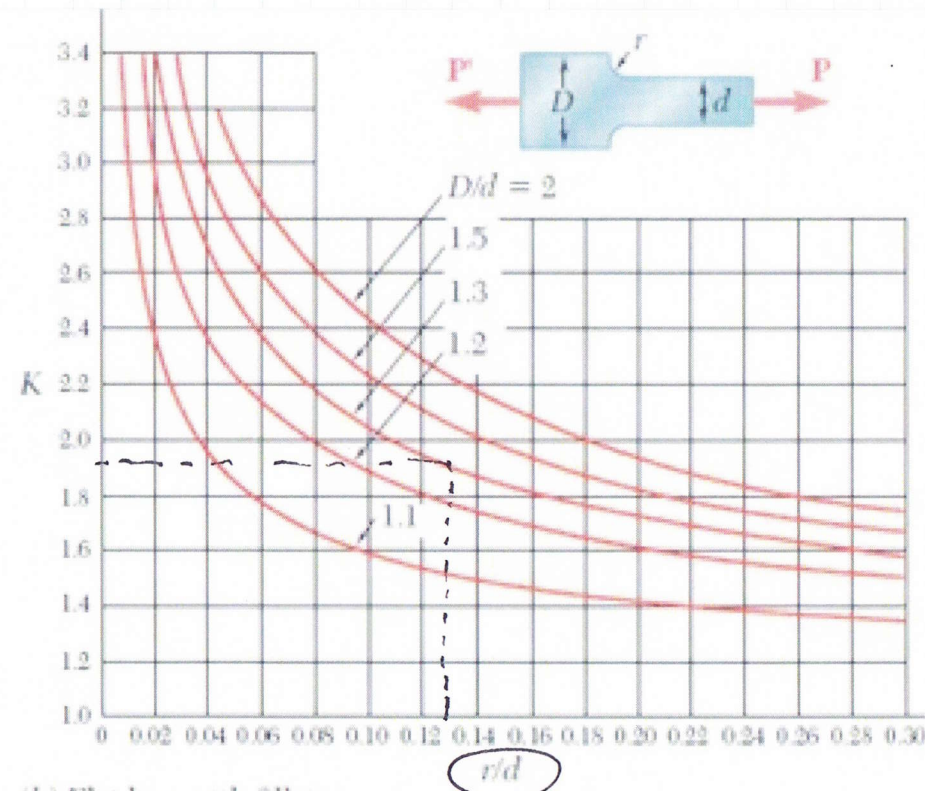
(a) Flat bars with holes

Stress Concentrations



$$\sigma_{AVG} = \frac{P}{dt}$$

$$\sigma_{max} = K \sigma_{AVG}$$



(b) Flat bars with fillets