

$$\sigma_{local} = \left(1 + 2\sqrt{\frac{a}{r}}\right) \sigma_0$$

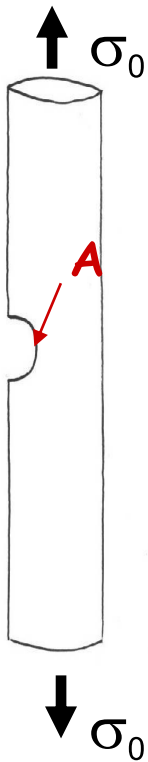
$$\sigma_{th} = \frac{E}{10}$$

$$\sigma_{local} = \sigma_{th}$$

Case 1:  $a = r = 1$  micron

Case 2:  $a = 1$  micron, and  $r = 20 \text{ \AA}$

$$1 \text{ \AA} = 10^{-10} m = 10^{-4} \mu m$$



$$\sigma_{local1} = ?$$

$$\sigma_{local} = \sigma_{th} = \frac{E}{10}$$

$$\sigma_{o1} = \frac{E}{30}$$

$$\sigma_{local2} = ?$$

$$\sigma_{o2} = \frac{E}{460}$$

