



$$R_{dc} = \frac{W}{\sigma A} \quad , \quad R_{ac} = \frac{W}{\sigma l \delta} \leftarrow \text{skin depth}$$

↑  
cross-sectional area

$$\frac{R_{ac}}{R_{dc}} = \frac{\frac{W}{\sigma l \delta}}{\frac{W}{\sigma A}}$$

good conductor  $\rightarrow A_{ac} \rightarrow l \delta$

$$\delta = \frac{1}{\alpha} \approx \frac{1}{\sqrt{\pi f \mu \sigma}}$$

$$\sigma_{cu} = 5.8 \times 10^7 \text{ S/m} \quad \text{Pg. 168 Sed}$$

$$= \frac{w}{\sigma l \delta} \cdot \frac{\sigma t l}{w}$$

$$= \frac{t}{\delta}$$

$$= t \sqrt{\pi f \mu \sigma}$$