

$$C = Q = \frac{1}{V_{A-B}} = \frac{1}{2V_{A}} = \frac{1}{2 \cdot \frac{1}{2\pi \epsilon_{0}}} \ln \left(\frac{a}{2}\right)$$

$$= \frac{\pi \epsilon_{0}}{\ln \left(\frac{a}{2}\right)} = \frac{$$