

P #1

Ch 20 - pg 643

$$B = .30 \text{ T}$$

$$r = 25 \text{ cm} = .25 \text{ m}$$

$$A = \pi \cdot r^2$$

$$= \pi \cdot (.25 \text{ m})^2$$

$$A = .196 \text{ m}^2$$

$$\Phi_m = B \cdot A$$

$$= (.30 \text{ T}) \cdot (.196 \text{ m}^2)$$

$$\boxed{\Phi_m = .059 \text{ T} \cdot \text{m}^2}$$