

## Chapter 20

20.10

$$B = 0.5 \text{ T}$$

20.14

$$0 < t < 0.3: \quad \mathcal{E} = -2.5 \text{ V}$$

$$0.3 < t < 0.4: \quad \mathcal{E} = 0 \text{ V}$$

$$0.4 < t < 0.5: \quad \mathcal{E} = 7.5 \text{ V}$$

20.18

$$\Phi = A_{sc} \mu_0 n I_0 \sin \omega t$$

20.22

$$\text{rotation: } \mathcal{E} = 0.11 \text{ V}$$

$$\text{no motion: } \mathcal{E} = 0$$

20.42

$$F = \frac{B^2 \ell^2 v}{R}$$

20.92

$$I = 2 \text{ A}$$

20.102

$$I = 0.79 \text{ A}$$