

76. Eq. 30-6 gives

$$i = \frac{2\pi RB}{\mu_0} = \frac{2\pi(0.880\text{ m})(7.30 \times 10^{-6}\text{ T})}{4\pi \times 10^{-7}\text{ T} \cdot \text{m/A}} = 32.1\text{ A} .$$