P # O

Ch. 19

$B = 3.4 \times 10^{-4}\ T$

$r = .50\ cm = .005\ m$

$\mu_0 = 4\pi \times 10^{-7}\ T \cdot m/A$

$B = \frac{\mu_0 \cdot I}{2\pi r}$ so $(3.4 \times 10^{-4}\ T) = \frac{(4\pi \times 10^{-7}\ T\,m/A)(I)}{(2\pi)\cdot(.005\ m)}$

$I = 8.5\ A$