SESSION 8

Magnetic field due to current in a wire $\qquad B = \dfrac{m_0 I}{2pr}$; $\qquad \mu_0 = 4\pi \times 10^{-7}$ T-m/A

Ampere's Law $\qquad \oint \vec{B}.d\vec{\ell} = m_0 I_{enclosed}$

Gauss' Law $\qquad \oint \vec{B}.d\vec{A} = 0$

Solenoid $\qquad B = m_0 I n$

Biot-Savart Law $\qquad d\vec{B} = \dfrac{m_0 I}{4p} \dfrac{d\vec{\ell} \times \vec{r}}{r^3}$

Field due to a ring $\qquad Bx = \dfrac{m_0 R^2 I}{2(R^2 + d^2)^{3/2}}$