

# Sources of the Magnetic Field

March 20, 2008

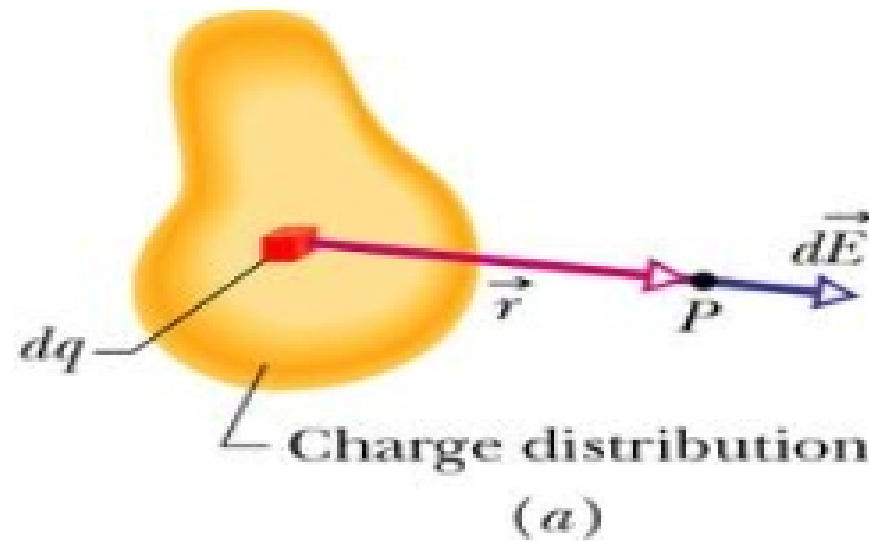
Note - These slides will be  
updated for the actual  
presentation.

● ● ● Remember the wire?



● ● ● | Try to remember...

Coulomb



$$d\mathbf{E} = \frac{1}{4\pi\epsilon_0} \int \frac{\mathbf{r}}{r^2} dq = \frac{1}{4\pi\epsilon_0} \int \frac{\mathbf{r}dq}{r^3}$$

$$\frac{\mathbf{r}}{|\mathbf{r}|} = \text{UNIT VECTOR}$$