

## 3-6 The Lorentz Force Law and the Field Concept

Reading Assignment: *pp. 75-81*

### A. Field Theory

### HO: Field Theory

### B. E.M. Fields and Forces

$$\mathbf{E}(\vec{r}) \doteq$$

$$\mathbf{B}(\vec{r}) \doteq$$

HO: The Electric Force

HO: The Magnetic Force

**C. The Lorentz Force Law**

HO: The Lorentz Force Law

HO: The Differential Lorentz Force Law

Example: The Lorentz Force Law