

## Useful Equations

### Chapter 19: Electric Forces and Electric Fields

#### Coulomb's law

$$\mathbf{F}_{12} = k_e \frac{q_1 q_2}{r^2} \hat{\mathbf{r}}_{12} \quad (1)$$

Where  $k_e \approx 8.988 \cdot 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2$  is the *Coulomb constant*,  $\mathbf{F}_{12}$  is the force on  $q_1$  due to  $q_2$ , and  $\hat{\mathbf{r}}_{12}$  is a unit vector pointing from  $q_1$  to  $q_2$ .

#### Electric field

$$\mathbf{E} = \frac{\mathbf{F}_e}{q_0} \quad (2)$$

So for a point charge, the electric field at a point  $\mathbf{r}$  is given by

$$\mathbf{E}(\mathbf{r}) = k_e \frac{q}{r^2} \hat{\mathbf{r}} \quad (3)$$

And for a group of charges, the electric field is given by

$$\mathbf{E}(\mathbf{r}) = k_e \int \frac{dq}{r^2} \hat{\mathbf{r}} \quad (4)$$

#### Electric flux

The electric flux is the amount of electric field “flowing” through a surface  $S$ :

$$\Phi_E = \int_S \mathbf{E} \cdot d\mathbf{A} \quad (5)$$

When you know something about the symmetry of the problem, you can often use *Gauss's law*

$$\Phi_E = \oint \mathbf{E} \cdot d\mathbf{A} = \frac{q_{\text{en}}}{\epsilon_0} \quad (6)$$

Where the  $\oint$  symbol reminds us that the surface must be closed,  $q_{\text{en}}$  is the enclosed charge, and  $\epsilon_0 \approx 8.854 \cdot 10^{-12} \text{ C}^2/\text{N}\cdot\text{m}^2$  is the *permittivity of free space*.

### Chapter 20: Electric Potential and Capacitance

#### Potential

The change in potential  $\Delta U$  of a charge  $q_0$  moving from  $A$  to  $B$  in an electric field  $\mathbf{E}(\mathbf{r})$  is given by

$$\Delta U = -q_0 \int_A^B \mathbf{E} \cdot d\mathbf{s} \quad (7)$$

Where  $d\mathbf{s}$  is an infinitesimal displacement vector.

The electric potential is defined as

$$\Delta V = \frac{\Delta U}{q_0} = - \int_A^B \mathbf{E} \cdot d\mathbf{s} \quad (8)$$

Or, taking the derivative of both sides in the  $x$  direction

$$E_x = - \frac{dV}{dx} \quad (9)$$

With similar cases in the  $y$  and  $z$  directions. For those of you with vector calculus who recognize the gradient  $\nabla$  you can express the above formula as:

$$\mathbf{E} = -\nabla V \quad (10)$$

The voltage a distance  $r$  from a point charge  $q$  is given by

$$V = - \int_A^B \frac{k_e q}{r^2} dr = k_e \frac{q}{r} \quad (11)$$

# Electric Forces And Fields Study Guide

**Arshad Iqbal**



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