

Electrostatics

Page No.:

Date:

★ $e^- = -1.6 \times 10^{-19}$ $m_e = 9.1 \times 10^{-31}$
 $p = +1.6 \times 10^{-19} C$ $m_p = 1.67 \times 10^{-27}$
 $N = 0$ $m_N = 1.67 \times 10^{-27} kg$
 $(m_N > m_e)$ // $(m_N \approx m_p)$

★ Properties →

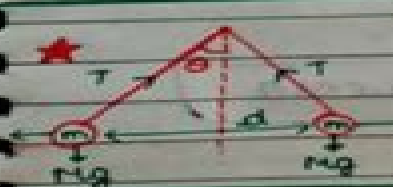
→ $m_e = 1e, 2e, 3e, \dots$
 → $m = \frac{m_0}{\sqrt{1 - v^2/c^2}}$ → Variant
 → $q = q_0$ → Invariant

★ Coulomb's Law →

→ $F = \frac{k q_1 q_2}{r^2}$ $q_1 \cdots \frac{1}{r^2} \cdots q_2$
 $k = 9 \times 10^9$
 ϵ_0 → free space
 → 8.85×10^{-12}

→ Medium →

$K = \frac{1}{4\pi\epsilon_0\epsilon_r}$
 ϵ_r → relative perm. $\epsilon_r > 1$
 → dielectric const.
 $(\epsilon_r \epsilon_0)$ → Absolute perm of Medium
Var. $\epsilon_r = 1$
Water $\epsilon_r = 81$
Metal $\epsilon_r = \infty$

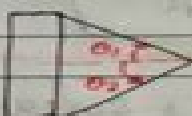
★  $\tan \theta = \frac{F_e}{mg}$

★ Vector → $\vec{F} = \frac{k q_1 q_2 \vec{r}}{|\vec{r}|^3}$

★ Electric field $[E]$ →

$+Q \cdots \frac{kQ}{r^2}$
 $-Q \cdots \frac{kQ}{r^2}$
 $\vec{E} = \vec{F}/q_0$
 $\lambda = Q/L$
 $\sigma = Q/A$
 $\rho = Q/V$

*  $\vec{E} = \frac{k\lambda}{r(r+L)}$

*  $\theta_1 = \angle CWO = \theta_{ve}$
 $\theta_2 = \angle ACO = \theta_{ve}$

$E_1 = \frac{k\lambda}{d} [\sin \theta_1 + \sin \theta_2]$
 $E_2 = \frac{k\lambda}{d} [\cos \theta_2 - \cos \theta_1]$

* Infinite Rod →

 $\theta_1 = 90^\circ$
 $\theta_2 = 90^\circ$
 $E_2 = 0$
 $E_1 = \frac{2k\lambda}{d}$

* Semi Infinite Rod →

 $\theta_1 = 90^\circ, \theta_2 = 0^\circ$
 $E_1 = k\lambda/d$
 $E_2 = k\lambda/d$

* Arc →

 $\vec{E} = \frac{2k\lambda \sin \phi}{R}$

Electrostatics Notes

Padhraic Smyth



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