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ELECTROSTATICS

1. QUANTISATION OF CHARGE:

$$q = ne$$

$$(e = 1.6 \times 10^{-19} c)$$

where, $n = 0, \pm 1, \pm 2, \pm 3, \ldots\ldots$

2. COULOMB'S LAW:

$$\vec{F} = k \frac{q_1 q_2}{r^2} \hat{r}$$ in vector form.

$$F = \frac{1}{4\pi\varepsilon_0} \frac{q_1 q_2}{r^2}$$ in Newton.

where, $\left\{ k = \frac{1}{4\pi\varepsilon_0} = 9 \times 10^9 \ Nm^2 c^{-2} \right.$

$\varepsilon_0 = $ permitivity $= 8.85 \times 10^{-12} c^2 N^{-1} m^{-2}$

3. DIELECTRIC CONSTANT OR RELATIVE PERMITIVITY:

$$\varepsilon_R = \frac{\varepsilon}{\varepsilon_0} = \frac{F_{vacuum}}{}$$
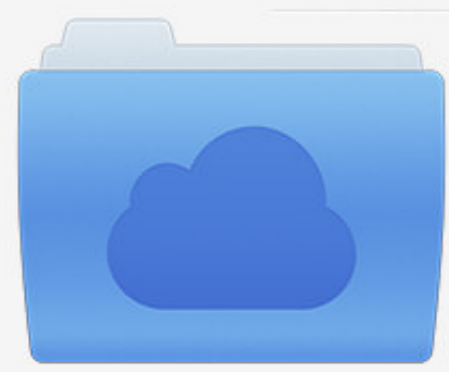
or

$$\varepsilon_R = \frac{F_{med}}{F_{vac}}$$

4. ELECTROSTATIC FORCE Vs. GRAVITATIONAL FORCE:

$$\frac{F_e}{F_g} = \frac{ke^2}{G m_p m_n} \simeq 2.27 \times 10^{39}$$

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Angular momentum · Constant angular momentum when no net torque · Angular momentum of an extended ...

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