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ELECTROSTATICS

1. QUANTISATION OF CHARGE:

$q = ne$ ($e = 1.6 \times 10^{-19} \text{C}$)

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

2. COULOMB'S LAW:

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

$F = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2}$ in Newton.

where, $k = \frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ Nm}^2 \text{C}^{-2}$

$\epsilon_0 = \text{permittivity} = 8.85 \times 10^{-12} \text{ C}^2 \text{N}^{-1} \text{m}^{-2}$

3. DIELECTRIC CONSTANT OR RELATIVE PERMITIVITY:

$\epsilon_r = \frac{\epsilon}{\epsilon_0}$ *in vacuum*

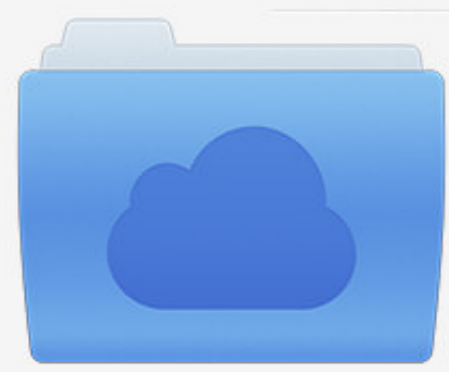
or

$\epsilon_r = \frac{F_{\text{med}}}{F_{\text{vac}}}$

4. ELECTROSTATIC FORCE VS. GRAVITATIONAL FORCE:

$\frac{F_e}{F_g} = \frac{ke^2}{Gm_p m_n} \approx 2.27 \times 10^{39}$

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

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