

Electrostatics

charge is associated with mass

charge is invariant.

$v=0$ → produce E

$v=\text{const}$ → produce E and B

$v \neq 0$ → produce E & B

$$\phi = \text{one} \quad (e = 1.6 \times 10^{-19} \text{ C})$$

for a moving body, mass m is
while charge remains const.

Coulomb's law $F = k \frac{q_1 q_2}{r^2}$

force always acts along line joining

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

* ϵ_0 → permittivity of
free space

* when complete system put in
a medium force becomes

$$F_{\text{new}} = \frac{F_0}{\kappa} \rightarrow \text{old force}$$

Coulomb's law correctly describes the electric force that
binds the electrons of an atom to its nucleus

vector form

$$F = \frac{k q_1 q_2 \hat{r}}{r^2} \rightarrow F = \frac{k q_1 q_2 \hat{r}}{r^2}$$

Principle of superposition

$$F_{\text{net}} = F_1 + F_2 + F_3 + \dots$$

Equilibrium of charged particles



$$\frac{kq_1}{x^2} = \frac{kq_2}{(d-x)^2} \Rightarrow \frac{q_1}{q_2} = \frac{x^2}{(d-x)^2}$$



$$x_1 : x_2 = 1 : 1$$

Equilibrium of charged particles (Net → formula)



$$\begin{aligned} F_{\text{net}} &= 2F \cos \frac{\theta}{2} \\ &= 2F \frac{\sqrt{3}}{2} \\ &= \sqrt{3}F \end{aligned}$$

$$F_{\text{net}} = 2F \left(\cos \frac{\theta}{2} \right) \quad (\text{using S.H.M. concept})$$

if S.H.M. concept is change



$$F_{\text{net}} = F_A - F_B$$

$$= \frac{kq_1 q}{(d-x)^2} - \frac{kq_2 q}{(d+x)^2}$$

$$= F_{\text{net}} = \frac{kq_1 q}{(d-x)^2} \frac{4dx}{(d^2-x^2)^2} \quad (x \ll d)$$

$$F_{\text{net}} = \frac{4kq^2 d x}{d^5}$$

$$a_{\text{net}} = \frac{4kq^2 x}{md^3}$$

$$w = \sqrt{\frac{kq^2}{md^3}} \quad \text{omega}$$

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J Dewey

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Electrostatic Effects in Soft Matter and Biophysics Christian Holm, Patrick Kékicheff, Rudolf Podgornik, 2012-12-06 Soft Condensed Matter commonly deals with materials that are mechanically soft and more importantly particularly prone to thermal fluctuation effects Charged soft matter systems are especially interesting they can be manufactured artificially as polyelectrolytes to serve as superabsorbers in dyes as flocculation and retention agents as thickeners and gelling agents and as oil recovery process aids They are also abundant in living organisms mostly performing important structural e g membranes and functional e g DNA tasks The book describes the many areas in soft matter and biophysics where electrostatic interactions play an important role It offers in depth coverage of recent theoretical approaches advances in computer simulation and novel experimental techniques Readership Advanced undergraduate level in physics physical chemistry and theoretical biochemistry

Scientific and Technical Aerospace Reports, 1982

Japanese Journal of Applied Physics, 2003

Inertial Electrostatic Confinement Thruster (IECT) Yung-An Chan, 2022-09-19 This work summarizes the state of the art development of inertial electrostatic confinement IEC thruster which can be divided into two parallel lines of development the IEC plasma source and the corresponding electromagnetic nozzle EMN Both developing lines start from the establishment of the theory and modeling and evolve to the design implementation and experimental verification The IEC discharge model highlights a novel perspective on the IEC discharge physics and the impacts of the respective critical parameters which layouts the design for the IEC plasma source Experimental verification for the theory is demonstrated via the optical emission spectroscopy and collision radiative model The results provide conclusive evidence of forming a spherical double layer within the IEC plasma source which is the key to establishing the proposed IEC discharge theory in this work This work presents a comprehensive study on the magnetohydrodynamic theory for assessing the plasma acceleration in the magnetic nozzle Nevertheless the result shows a performance limitation of the magnetic nozzle An innovative invention is proposed to overcome the limitation known as the EMN Thorough descriptions of EMN and its working principle are summarized in this work including its effects on plasma confinement acceleration and detachment Investigation of the plasma plume properties by miscellaneous plasma diagnostics tools further demonstrates EMN functionality and constitutes the first IECT prototype with proof of concept in literature

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