

ELECTROSTATICS**Single Type**

1. An insulating solid sphere of radius 'R' is charged in a non-uniform manner such that volume charge density $\rho = \frac{A}{r}$, where A is a positive constant and r the distance from centre. Electric field strength at any inside point at distance r_1 is -
- (A) $\frac{1}{4\pi\epsilon_0} \frac{4\pi A}{r_1}$ (B) $\frac{1}{4\pi\epsilon_0} \frac{A}{r_1}$
 (C) $\frac{A}{2\epsilon_0}$ (D) $\frac{A}{2\epsilon_0}$

Ans: (D)

P is any inside point at distance r_1 from O. we take a spherical surface of radius r_1 as Gaussian –surface of radius r_1 as Gaussian-surface.

$$\oint \vec{E} \cdot d\vec{s} = \frac{q_{in}}{\epsilon_0}$$



By symmetry, E at all points on the surface is same and angle between $\vec{E}$ and $d\vec{s}$ is zero everywhere.

$$\therefore \oint \vec{E} \cdot d\vec{s} = Es = \frac{q_{in}}{\epsilon_0} \text{ or } E 4\pi r_1^2 = \frac{q_{in}}{\epsilon_0} \dots (i)$$

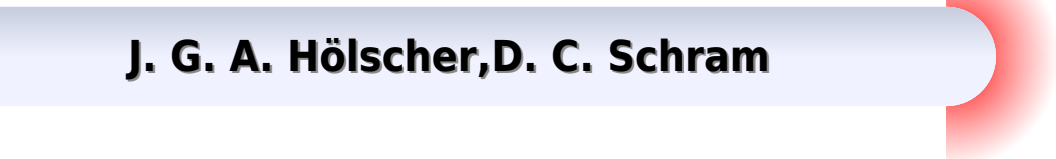
q_{in} : The sphere can be regarded as consisting of a large number of spherical shells. Consider a shell of inner and outer radii r and r + dr. Its volume will be $dV = 4\pi r^2 dr$. Charge in the shell,

$$dq = \rho dV = \frac{A}{r} 4\pi r^2 dr$$

Total charge enclosed by Gaussian-surface,

Xii Electrostatics Problem Questions

J. G. A. Hölscher, D. C. Schram



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