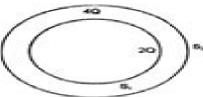
Ch- 1,2

PHYSICS

- 1. Find the Torque on electric dipole in uniform external field.
- Derive all the applications of Gauss Law 2
- 3. Derive electric field due dipole
- 4. Derive Potential due to dipole
- 5. Energy stored in capacitor hence find its Energy Density.
- 6. Find Capacitance (parallel, cylindrical, spherical)
- An electric dipole of length 1 cm when placed with its axis making an angle of 60° with a uniform electric field, experiences a torque of 6√3 Nm. Calculate the potential energy of dipole if it has charges $\pm 2 nC$?
- 8. An electric dipole is placed in a uniform electric field E with its dipole moment p parallel to the field, Find
 - (i) the work done in turning the dipole till its dipole moment points in the direction opposite to
 - (ii) the orientation of the dipole for which the torque acting on it becomes maximum.
- Calculate the amount of work done in turning an electric dipole of dipole moment 3×10⁻⁸ C-m from its position of unstable equilibrium to the position of stable equilibrium in a uniform electric field of intensity 103 N/C.
- 10. Deduce the expression for the torque acting on a dipole of dipole moment pin the presence of a uniform electric field E.
- 11. Consider two hollow concentric spheres S1 and S2 enclosing charges 2Q and 4Q respectively, as shown in the figure. (i) Find out the ratio of the electric flux through them. (ii) How will the electric flux through them. (ii) How will the electric flux through the spheres S1 change if a medium of dielectric constant €, is introduced in the space inside S1 in place of air? Deduce the necessary expression.



12. Two charges of magnitudes -2Q and +Q are located at points (a,0) and (4a,0), respectively. What is the electric flux due to these charges through a sphere of radius 3a with its centre at the origin?





Phy 2 12th Digest

Frank Wigglesworth Clarke

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