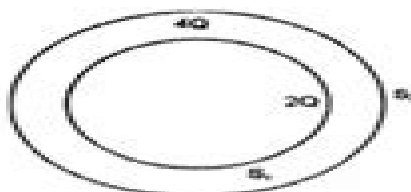




1. Find the Torque on electric dipole in uniform external field.
2. Derive all the applications of Gauss Law
3. Derive electric field due dipole
4. Derive Potential due to dipole
5. Energy stored in capacitor hence find its Energy Density.
6. Find Capacitance (parallel, cylindrical, spherical)
7. An 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 $6\sqrt{3}$ Nm. Calculate the potential energy of dipole if it has charges ± 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 E .
 - (ii) the orientation of the dipole for which the torque acting on it becomes maximum.
9. 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 10^3 N/C.
10. Deduce the expression for the torque acting on a dipole of dipole moment p in the presence of a uniform electric field E .
11. Consider two hollow concentric spheres S_1 and S_2 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 S_1 change if a medium of dielectric constant ϵ_r is introduced in the space inside S_1 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

Birenda Bahadur



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Digest of the Decisions of the Supreme Court of Washington Arthur Remington, 1919 *Abbott's Digest of All the New York Reports ...*, 1884 Third Decennial Edition of the American Digest, 1929 *Abbotts' Digest of All the New York Reports, 1913-[1917]* Benjamin Vaughan Abbott, 1914 Liquid Crystal - Applications And Uses (Volume 2) Birendra Bahadur, 1991-03-07 This book reviews comprehensively the technological scientific artistic and medical applications of liquid crystals It starts with the basics of liquid crystals and covers electro optical thermo optical colour polymeric lyotropic and scientific applications of liquid crystalline materials It discusses the fabrication and operational principles of a full range of liquid crystal displays including dynamic scattering twisted nematic supertwisted nematic dichroic smectic A ferroelectric polymer dispersed light valve active matrix etc in detail It also covers the emerging applications of liquid crystals such as optical computing nonlinear optics decorative and visual arts Classification theory chemical structure physical properties and surface alignment of liquid crystals have detailed chapters to facilitate the basic understanding of the science behind LCDs and other uses of liquid crystals The chapters liquid crystal polymers and lyotropic liquid crystals give deep insight into these areas The potential uses and applications are also described in detail Liquid Crystal - Applications and Uses Birenda Bahadur, 1992-12-01 This book reviews comprehensively the technological scientific artistic and medical applications of liquid crystals It starts with the basics of liquid crystals and covers electro optical thermo optical colour polymeric lyotropic and scientific applications of liquid crystalline materials It discusses the fabrication and operational principles of a full range of liquid crystal displays including dynamic scattering twisted nematic supertwisted nematic dichroic smectic A ferroelectric polymer dispersed light valve active matrix etc in detail It also covers the emerging applications of liquid crystals such as optical computing nonlinear optics decorative and visual arts The detailed chapters on classification theory chemical structure physical properties and surface alignment of liquid crystals facilitate the basic understanding of the science behind LCDs and other uses of liquid crystals The chapters on liquid crystal polymers and lyotropic liquid crystals give deep insight into these areas The potential uses and applications are also described in detail *World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China* Mian Long, 2013-02-11 The congress s unique structure represents the two dimensions of technology and medicine 13 themes on science and medical technologies intersect with five challenging main topics of medicine to create a maximum of synergy and integration of aspects on research development and application Each of the congress themes was chaired by two leading experts The themes address specific topics of medicine and technology that provide multiple and excellent opportunities for exchanges *The American Digest Annotated, Key-number Series*, 1912 *The Electrical World and Engineer*, 1899 *Field Emission in Vacuum Microelectronics* George N. Fursey, 2007-12-24 Field emission is a phenomenon described by quantum mechanics Its emission capability is millions times higher than that of any other known types of electron emission Nowadays this phenomenon is experiencing a

new life due to wonderful applications in the atomic resolution microscopy in electronic holography and in the vacuum micro and nanoelectronics in general The main field emission properties and some most remarkable experimental facts and applications are described in this book

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