Electric Charges and Fields

Coulomb's Law

$$\vec{F} = \frac{1}{4\pi\varepsilon_0}\frac{q_1 q_2}{r^2}\hat{r}$$

$$q = \pm ne$$

Gauss's Theorem

$$\phi_E = \oint \vec{E}\cdot d\vec{s} = \frac{Q}{\varepsilon_0}$$

Charge density

linear	surface	volume
$\lambda = \frac{q}{l}$	$r = \frac{q}{A}$	$r = \frac{q}{V}$

- E.F due to infinite sheet of charge → $\vec{E} = \frac{\sigma}{2\varepsilon_0}\hat{n}$
- E.F due to infinite long charged wire → $E = \frac{\lambda}{2\pi\varepsilon_0 r}$

Electric Field

$$\vec{E} = \frac{\vec{F}}{q_0}$$

$E_r = \frac{E}{E_a}$

Due to Point Charge

$$E = \frac{kq}{r^2} \qquad k = 9\times10^9 \, Nm^2/C^2$$

Electric Dipole moment $\vec{P} = q\,2\vec{a}$

Electric Field due to dipole

on axial line	on equatorial line
$E = \frac{2P}{4\pi\varepsilon_0 r^3}$	$E = \frac{P}{4\pi\varepsilon_0 r^3}$

Torque $\vec{\tau} = \vec{P}\times\vec{E}$ or $\tau = PE\sin\theta$

Due to Charged Conducting Sphere

$E = \frac{kq}{r^2}, \, r>R \quad E = \frac{kq}{R^2}, \, r=R \quad E=0 \quad r<R$

Potential due to

Uniformly Charged Sphere

$$V = \frac{q}{4\pi\varepsilon_0 r}$$
$$V = \frac{q}{4\pi\varepsilon_0 R}$$
$$V = \frac{q}{4\pi\varepsilon_0 R}$$

Non Conducting Sphere

Outside $r>R$: $V = \frac{q}{4\pi\varepsilon_0 r}$

On the shell $r = R$: $V = \frac{q}{4\pi\varepsilon_0 R}$

Inside $r<R$: $V = \frac{q}{4\pi\varepsilon_0}\frac{(3R^2-r^2)}{2R^3}$

Electric Potential & Capacitance

Electric Potential $V = \frac{q}{4\pi\varepsilon_0 r}$

Potential due to dipole → Axial → $V = \frac{P}{4\pi\varepsilon_0 r^2}$

Equatorial → $V = 0$

At any point → $V = \frac{P\cos\theta}{4\pi\varepsilon_0 r^2}$

Electric Potential Energy [for two charges]

$$U = \frac{q_1 q_2}{4\pi\varepsilon_0 r_{12}}$$

Due to dipole in External Field

$$U = pE(\cos\theta_0 - \cos\theta) \quad or \quad U = -\vec{P}\cdot\vec{E} \quad \theta_0\text{-initial}$$

Relation between $\vec{E}$ & V

$$E = -\frac{dV}{dr} \quad or \quad V = -\int\vec{E}\cdot dr$$

Capacitance

$$C = \frac{q}{V}$$

Series combination $\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2}$

Parallel Comb. $C_p = C_1 + C_2$

Capacitance of Parallel Plate Capacitor

Air filled $C = \frac{\varepsilon_0 A}{d}$

Partially filled with dielectric $C = \frac{\varepsilon_0 A}{d-t(1-\frac{1}{k})}$

Completely filled $C = K\varepsilon_0\frac{A}{d}$

Filled with metal $C = \frac{A\varepsilon_0}{(d-t)}$

Spherical Capacitor

$C = 4\pi\varepsilon_0\frac{ab}{b-a}$

Capacitance of Isolated Sphere

$$C = 4\pi\varepsilon_0 r$$

Energy stored in a Capacitor

$$U = \frac{1}{2}CV^2 = \frac{1}{2}QV = \frac{1}{2}\frac{Q^2}{C}$$

Energy density $u = \frac{U}{V} = \frac{1}{2}\varepsilon_0 E^2$

Force between plates of Capacitor $F = \frac{Q^2}{2A\varepsilon_0}$

Common Potential

$$V = \frac{q_1+q_2}{C_1+C_2} = \frac{C_1V_1+C_2V_2}{C_1+C_2}$$

Energy Loss $= \frac{1}{2}\frac{C_1 C_2 (V_1-V_2)^2}{(C_1+C_2)}$

Current Electricity

Electric Current $i = \frac{q}{t}$

Current density $J = \frac{I}{A}$

Relation b/w i & V_d $i = Ane V_d$

Principle of Wheat Stone $\frac{P}{Q} = \frac{R}{S}$

Principle of Meter bridge $\frac{R}{S} = \frac{L_1 (\text{length of wire})}{100 - L_1}$

Principle of potentiometer $K = \frac{V}{L} = \frac{iR}{L}$

Power $P = Vi = i^2R = \frac{V^2}{R}$

Electric Energy $W = Vq = Vit = i^2Rt = \frac{V^2t}{R}$

Drift Velocity $V_d = \frac{eET}{m} = \frac{eVT}{ml}$

Mobility $\mu = \frac{|V_d|}{E}$

Resistivity $\rho = \frac{m}{ne^2\tau}$

Ohm's Law $V = iR$, $R = \rho\frac{L}{A}$

Conductivity $\sigma = \frac{1}{\rho} = \frac{ne^2\tau}{m}$

Relation b/w J & $\vec{E}$ $J = \sigma E$

EMF of a Cell $E = \frac{W}{q}$

$E = V + Ir$

Combination of identical cells

Series (n-cell) $i = \frac{nE}{R+nr}$

Parallel (m-cell) $i = \frac{mE}{mR+r}$

Mixed $i = \frac{mnE}{mR+nr}$

Temp. coefficient $\alpha = \frac{R-R_0}{R_0(T-T_0)}$

Terminal Potential diff $V = \frac{W}{q}$

$r = R\left[\frac{E-V}{V}\right]$

Joule's Law $H = i^2Rt$ Joule

$H = \frac{i^2Rt}{4.18}$ Calories

Moving Charges and Magnetism

Magnetic Force

$$\vec{F}_m = q(\vec{v}\times\vec{B})$$

Pitch $(P) = \frac{2\pi mv\cos\theta}{qB}$

Motion of charge in Uniform Transverse Magnetic Field.

$F_m = qVB = \frac{mv^2}{r}$

- **Time period** $T = \frac{2\pi R}{V} = \frac{2\pi m}{qB}$

- **Radius of Circular path** $r = \frac{mv}{qB} = \frac{P}{qB} = \frac{\sqrt{2mK}}{qB} = \frac{\sqrt{2mqV}}{qB}$

Biot Savart's Law $dB = \frac{\mu_0}{4\pi}\frac{idl\sin\theta}{r^2}$

→ M.F at Centre of a Circular Coil $B = \frac{\mu_0 i}{2a}$

→ M.F at a point on the axis of Current Carrying Coil $B = \frac{\mu_0}{4\pi}\frac{2\pi Nia^2}{(a^2+x^2)^{3/2}}$

Force b/w two Current Carrying parallel straight Conductor $F = \frac{\mu_0}{4\pi}\frac{2i_1 i_2 L}{r}$

- **Magnetic force on a Current Carrying Conductor** $\vec{F} = i(\vec{L}\times\vec{B})$

- **Ampere's Circuital Law** $\oint\vec{B}\cdot d\vec{l} = \mu_0 i$

Magnetic field due to an infinitely long straight wire of radius 'a' carrying Current i at a point -

$B = \frac{\mu_0 i}{2\pi a^2}, \, r<a \qquad B = \frac{\mu_0 i}{2\pi a}, \, r=a \qquad B = \frac{\mu_0 i}{2\pi r}, \, r>a$

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provided in this book are listed below PART 1 FORMULAS Fundamental quantities and units Friction Density Pressure Work Energy and Power Current Electricity Elasticity of material Resolution of vectors Motion Momentum Simple Harmonic Notion Machines Heat Gas Laws Wave Motion Sound Light Gravitational Field Electric field Electrolysis Magnetic Field The Transformer Alternating Current A C Circuit Radioactivity Structure of the atom Photoelectric effect Wave Particle nature of matter The various tables provided in this book are listed below PART 2 TABLES OF PHYSICAL CONSTANTS Table of Fundamental Physical Constants Table of Relative Permittivity Dielectric Constant of Materials Table of Specific Capacitance of Materials Table of Electrical Conductivity and Resistivity of Materials Table of Temperature Coefficient of Materials Table of Specific Heat Capacity of Materials Table of Density of Solids Table of Density of Liquids Table of Thermal Conductivity of Elements Table of Thermal Conductivity of other materials Table of Melting Points of Elements Table of Melting Points of Alloys and Chemicals Table of Boiling Point of Elements Table of Boiling Point of Common Chemicals Table of Specific Latent Heat of Fusion and Vaporization of Materials Magnetic Permeability of Material Table of Viscosity of Materials This book will serve as a very useful guide for students and teachers to make reference to whenever there is a quick need for formulas and constants It will also help students to easily memorize formulas and remember them whenever needed **Spark Charts Physics Formulas** Sterling,2014-02-04 SparkCharts tm The information you need concisely conveniently and accurately Created by Harvard students for students everywhere these study companions and reference tools cover a wide range of college and graduate school subjects from Business and Computer Programming to Medicine Law and Languages They ll give you what it takes to find success in school and beyond Outlines and summaries cover key points while diagrams and tables make difficult concepts easier to grasp This two page chart lists the most important physics formulas divided into the following sections Physical constants Dynamics Vector formulas Electromagnetic constants Optics Work energy power Momentum and impulse Kinematics Waves Rotational motion Simple harmonic motion Electricity Magnetism Thermodynamics Gravity *Physics Formulas* . Sparknotes Editors,2002-10 SparkChartsTM created by Harvard students for students everywhere serve as study companions and reference tools that cover a wide range of college and graduate school subjects including Business Computer Programming Medicine Law Foreign Language Humanities and Science Titles like How to Study Microsoft Word for Windows Microsoft Powerpoint for Windows and HTML give you what it takes to find success in school and beyond Outlines and summaries cover key points while diagrams and tables make difficult concepts easier to digest This two page chart lists the most important physics formulas divided into the following sections Physical constantsDynamicsVector formulasElectromagnetic constantsOpticsWork energy powerMomentum and impulseKinematicsWavesRotational motionSimple harmonic motionElectricityMagnetismThermodynamicsGravity **All of Physics (Almost) in 15 Equations** Mansoulie Bruno,2018-12-07 The book comprises 15 short chapters each presenting an important equation of Physics from the simplest and oldest to more complex and recent ones The target audience is the

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Table of Contents Physics Chapter Wise Formulas Ncert

1. Understanding the eBook Physics Chapter Wise Formulas Ncert
    - The Rise of Digital Reading Physics Chapter Wise Formulas Ncert
    - Advantages of eBooks Over Traditional Books
2. Identifying Physics Chapter Wise Formulas Ncert
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Physics Chapter Wise Formulas Ncert
    - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Chapter Wise Formulas Ncert
    - Personalized Recommendations
    - Physics Chapter Wise Formulas Ncert User Reviews and Ratings
    - Physics Chapter Wise Formulas Ncert and Bestseller Lists
5. Accessing Physics Chapter Wise Formulas Ncert Free and Paid eBooks
    - Physics Chapter Wise Formulas Ncert Public Domain eBooks
    - Physics Chapter Wise Formulas Ncert eBook Subscription Services
    - Physics Chapter Wise Formulas Ncert Budget-Friendly Options
6. Navigating Physics Chapter Wise Formulas Ncert eBook Formats

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