

Electric Charges and Fields

Coulomb's Law
 $q_1 \quad r \quad q_2$

$$\vec{F} = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2} \hat{r}$$
 $Q = \pm ne$

Gauss's Theorem
 $\phi_e = \oint \vec{E} \cdot d\vec{S} = \frac{Q}{\epsilon_0}$

Charge density
 linear $\lambda = \frac{Q}{L}$
 surface $\sigma = \frac{Q}{A}$
 volume $\rho = \frac{Q}{V}$

EF due to infinite Sheet of Charge
 $\vec{E} = \frac{\sigma}{2\epsilon_0} \hat{n}$
EF due to infinite long charged wire
 $E = \frac{\lambda}{2\pi\epsilon_0 r}$

Electric Field
 $\vec{E} = \frac{\vec{F}}{q_0}$
Due to Point Charge
 $E = \frac{kq}{r^2}$ $k = 9 \times 10^9 \text{ Nm}^2/\text{C}^2$
Electric Dipole moment $\vec{P} = q \cdot 2\vec{a}$
Electric Field due to dipole
 on axial line $E = \frac{2P}{4\pi\epsilon_0 r^3}$
 on equatorial line $E = \frac{P}{4\pi\epsilon_0 r^3}$

Torque $\vec{\tau} = \vec{P} \times \vec{E}$ or $\tau = PES \sin\theta$
Due to charged Conducting Sphere

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

Potential due to Non Conducting Sphere
 Uniformly charged sphere
 Outside $r > R$ $V = \frac{q}{4\pi\epsilon_0 r}$
 On the shell $r = R$ $V = \frac{q}{4\pi\epsilon_0 R}$
 Inside $r < R$ $V = \frac{q}{4\pi\epsilon_0 R} \left(\frac{3R^2 - r^2}{2R^3} \right)$

Current Electricity

Electric Current
 $I = \frac{Q}{t}$
Current density
 $J = \frac{I}{A}$

Principle of Wheat Stone
 $\frac{P}{Q} = \frac{R}{S}$
Principle of Meter bridge
 $\frac{R}{S} = \frac{L}{100-L}$

Drift Velocity
 $V_d = \frac{eE\tau}{m} = \frac{eV}{ml}$
Relation b/w I & V_d
 $I = AneV_d$
Principle of potentiometer
 $K = \frac{V}{L} = \frac{IR}{L}$
Power $P = VI = I^2 R = \frac{V^2}{R}$
Energy $W = Vq = VIt = I^2 Rt = \frac{V^2 t}{R}$

Electric Potential $V = \frac{q}{4\pi\epsilon_0 r}$
 Potential due to dipole
 Axial $V = \frac{P}{4\pi\epsilon_0 r^2}$
 Equatorial $V = 0$
Electric Potential Energy [for two charge]
 due to dipole in external field
 $U = -\vec{P} \cdot \vec{E} = PE(\cos\theta_2 - \cos\theta_1)$ or $U = -\vec{P} \cdot \vec{E}$
Capacitance
 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 $C = \frac{\epsilon_0 A}{d}$
 Partially filled with dielectric $C = \frac{\epsilon_0 A}{d} \left(1 + \frac{k}{2} \right)$
 Completely filled $C = K\epsilon_0 \frac{A}{d}$
 Filled with metal $C = \frac{2\pi\epsilon_0 ab}{(d-t)}$
Capacitance of Isolated Sphere
 $C = 4\pi\epsilon_0 R$

Energy stored in a Capacitor
 $U = \frac{1}{2} CV^2 = \frac{1}{2} QV = \frac{1}{2} \frac{Q^2}{C}$
Common Potential
 $V = \frac{q_1 + q_2}{C_1 + C_2} = \frac{C_1 V_1 + C_2 V_2}{C_1 + C_2}$
Energy loss
 $= \frac{1}{2} \frac{C_1 C_2 (V_1 - V_2)^2}{(C_1 + C_2)}$
Force between plates of Capacitor
 $F = \frac{Q^2}{2A\epsilon_0}$

Moving Charges and Magnetism

Magnetic force
 $\vec{F}_m = q(\vec{v} \times \vec{B})$
 Pitch (P) = $\frac{2\pi m v \cos\theta}{qB}$

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 $r = \frac{mv}{qB} = \frac{P}{qB} = \sqrt{\frac{2mK}{qB}} = \sqrt{\frac{2mqV}{qB}}$

Biot Savart's Law
 $dB = \frac{\mu_0}{4\pi} \frac{Idl \sin\theta}{r^2}$
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
 $\vec{F} = i(\vec{L} \times \vec{B})$
Magnetic field due to an infinitely long straight wire of radius 'a', carrying current 'I' at a point
 $B = \frac{\mu_0 I}{2\pi a^2}, r < a$ $B = \frac{\mu_0 I}{2\pi a}, r = a$ $B = \frac{\mu_0 I}{2\pi r}, r > a$
Combination of identical cells
 Series $i = \frac{nE}{R + nr}$
 Parallel $i = \frac{mE}{mR + r}$
 Mixed $i = \frac{mnE}{mR + nr}$
Temp. coefficient
 $\alpha = \frac{R - R_0}{R_0(T - T_0)}$
Joule's Law
 $H = i^2 R t$ Joule
 $H = \frac{i^2 R t}{4.18}$ Calories

Physics Up To

Michael F. L'Annunziata



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The Calendar University of Calcutta, 1914 *Reactor Technology* ,1969 **Superconducting Super Collider** United States. Congress. Senate. Committee on Energy and Natural Resources. Subcommittee on Energy Research and Development, 1988 *Radioactivity* Michael F. L'Annunziata, 2016-05-13 A recipient of the PROSE 2017 Honorable Mention in Chemistry Physics Radioactivity Introduction and History From the Quantum to Quarks Second Edition provides a greatly expanded overview of radioactivity from natural and artificial sources on earth radiation of cosmic origins and an introduction to the atom and its nucleus The book also includes historical accounts of the lives works and major achievements of many famous pioneers and Nobel Laureates from 1895 to the present These leaders in the field have contributed to our knowledge of the science of the atom its nucleus nuclear decay and subatomic particles that are part of our current knowledge of the structure of matter including the role of quarks leptons and the bosons force carriers Users will find a completely revised and greatly expanded text that includes all new material that further describes the significant historical events on the topic dating from the 1950s to the present Provides a detailed account of nuclear radiation its origin and properties the atom its nucleus and subatomic particles including quarks leptons and force carriers bosons Includes fascinating biographies of the pioneers in the field including captivating anecdotes and insights Presents meticulous accounts of experiments and calculations used by pioneers to confirm their findings *Reader's Guide to the History of Science* Arne Hessenbruch, 2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn **Bulletin of the United States Bureau of Labor Statistics** ,1968 *Quality and Safety in Radiotherapy* Todd Pawlicki, Peter Dunscombe, Arno J. Mundt, Pierre Scalliet, 2010-12-20 The first text to focus solely on quality and safety in radiotherapy this work encompasses not only traditional more technically oriented quality assurance activities but also general approaches of quality and safety It includes contributions from experts both inside and outside the field to present a global view The task of assuring quality *School Life* ,1962 **British Medical Journal** ,1925 *New Science Theory and On The Magnet* Vincent Wilmot, William Gilbert, 2015-07-22 The first book is basically the New Science Theory com site as on 1 January 2018

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