

● Motion of charge in Uniform Transverse Magnetic field.

$$F_m = qVB = \frac{qvB}{r}$$

$$\Rightarrow \text{Time period } T = \frac{2\pi r}{v} = \frac{2\pi r}{qB}$$

● Radius of Circular path

$$r = mv = \frac{p}{qB} = \frac{\sqrt{2mE}}{qB} = \frac{\sqrt{2mV}}{qB}$$

● Magnetic Force on a Current Carrying Conductor

$$\vec{F} = i(\vec{T} \times \vec{B})$$

● Biot Savart's Law

$$d\vec{B} = \frac{\mu_0}{4\pi} \frac{i dl \sin \theta}{r^2}$$

● MF of Centre of a Circular Coil

$$B = \frac{\mu_0 i}{2a}$$

● Force b/w two Current Carrying parallel straight Conductor

$$F = \frac{\mu_0}{4\pi} \frac{2I_1 I_2}{r}$$

● MF of a point on the Axis of Current Carrying coil.

$$B = \frac{\mu_0}{4\pi} \frac{2\pi N i a^2}{(a^2 + x^2)^{3/2}}$$

● 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 -

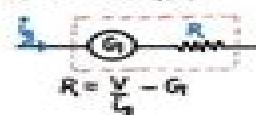
$$B = \frac{\mu_0 i}{2\pi a}, \text{ for } a < r \\ B = \frac{\mu_0 i}{2\pi a}, \text{ for } a > r \\ B = \frac{\mu_0 i}{2\pi r}, \text{ for } r \gg a$$

● Torque on a Current Carrying coil placed in a Uniform magnetic field

$$T = NIBS \sin \theta$$

$$\text{or } T = MBS \sin \theta$$

where $M = \frac{N}{4\pi} \cdot \text{gaussmeter}$



● Galvanometer Conversion into + Ammeter



Sensitivity

● Current Sensitivity

$$S_I = \frac{\theta}{I} = \frac{NAB}{K}$$

● Voltage Sensitivity

$$S_V = \frac{\theta}{V} = \frac{NAB}{IR} = \frac{NAB}{KR}$$

● Magnetic field due to a Current Carrying Solenoid

$$B_s = \mu_0 n i = (\mu_0 N i) / l \quad n = N/l$$

Magnetism & Matter

● Bar Magnet as an Equivalent Solenoid

$$B = \frac{\mu_0 2m}{4\pi r^3}$$

where m = magnetic moment of solenoid. $m = n(l/2) i (l\pi a^2)$

● Potential Energy of magnetic dipole

$$U = -M B \cos \theta$$

$$U = -\vec{M} \cdot \vec{B}$$

$$I = \frac{M}{V} \quad X_m = \frac{I}{H_0}$$

$$\mu = \mu_0 (1 + X_m)$$

● Curie's Law

→ For dia. $\chi_m \propto T^0$

→ For Paramagnetic

$\chi_m \propto \frac{1}{T}$

→ For Ferromagnetic

$\chi_m \propto \frac{1}{T - T_c}$

$$B = \mu_0 H$$

$$M_r = \frac{\mu_r}{\mu_0}$$

$$4\pi r = 1 + X_m$$

Gauss's law for Magnetism

$$\Phi = \sum_{\text{all areas}} \vec{B} \cdot d\vec{S} = 0$$

● Magnetic field at a point due to magnetic dipole

$$B_d = \frac{\mu_0}{4\pi} \frac{2Mr}{r^3} \quad B_d = \frac{\mu_0 M}{4\pi r^2 (r^2 + l^2)^{3/2}}$$

$$\text{or } B_{d,x} = \frac{\mu_0}{4\pi r^3} \quad \text{or } B_{d,y} = \frac{\mu_0 M}{4\pi r^3}$$

Electromagnetic Induction

● Magnetic flux

$$\Phi = \vec{B} \cdot \vec{A}$$

$$\Phi = B A \cos \theta$$

for rod



Induced emf

$$E = -\frac{d\Phi}{dt} \quad E = B A \sin \theta$$

$$E = B A \sin \theta \quad E = B A \sin \theta$$

or $|E| = B A \omega$

$$F = B A \frac{V}{R}$$

$$P = B A \frac{V^2}{R}$$

for rod

for rotating

for disc

for disc

A.C. Generator

$E = E_m \sin \omega t$

$E = E_m \cos \omega t$

● Inductance EMF Induced in the coil, $E = -L \frac{di}{dt}$

● Coefficient of Self Induction Self Inductance of a long solenoid

$$L = \frac{N}{l} \Phi_0 = \frac{-E}{di/dt} = \frac{-E_0}{di_0/dt} = \mu_0 M/l = \mu_0 N/l A$$

● Mutual Inductance

$$M = N_2 \Phi_0 = \frac{-E_2}{di_2/dt} = \frac{-E_2}{di_1/dt} = \frac{E_1}{di_1/dt} \quad \text{Coefficient of Coupling } K = \frac{M}{\sqrt{L_1 L_2}}$$

● Mutual Inductance of two long solenoids for Perfect Coupling

$$M = \mu_0 N_1 N_2 \pi r^2 l_1 l_2 = \mu_0 N_1 N_2 N_1 A_2 = K M_1 M_2 l_1 l_2$$

● Combination of Inductors

Series $L_s = L_1 + L_2 + L_3$

Parallel $L_p = \frac{1}{L_1 + L_2 + L_3}$

$L_1 + L_2 + 2M$

if coils are far away then $M=0$, so

$$L_s = L_1 + L_2 + L_p = \frac{L_1 L_2}{L_1 + L_2}$$

● Induced Electric Field

$$\oint \vec{E} \cdot d\vec{l} = -\frac{d\Phi}{dt} = -\frac{d\Phi_0}{dt} \neq 0$$

● Magnetic Energy

$$\text{In Inductor } U_B = \frac{1}{2} L I^2$$

$$\text{In Solenoid } U_B = \frac{1}{2} B A l$$

● Magnetic Energy Density $u_B = \frac{U_B}{V}$

$$u_B = \frac{B^2}{2\mu_0}$$

● Induced Charge Flow

$$\Delta Q = I \Delta t = -N \frac{d\Phi_0}{dt} \frac{1}{R}$$

Alternating Current

● Alternating Current R.M.S. Value of Current & Voltage

$$I_{rms} = \frac{I_0}{\sqrt{2}}, \quad V_{rms} = \frac{V_0}{\sqrt{2}}$$

$$I_{rms} = 0.707 I_0, \quad V_{rms} = 0.707 V_0$$

● Mean value of Current & Voltage

$$I_{av} = 2 \frac{I_0}{\pi}, \quad V_{av} = 0.637 V_0$$

$$I_{av} = 0.637 I_0, \quad V_{av} = 0.637 V_0$$

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or several words from that sentence or the replacement of a possibly discontinuous substring of that sentence by a shorter substring It is required that each application of such a reduction operation must preserve the syntactical correctness of the sentence Accordingly a restarting automaton consists of a finite state control a flexible tape that initially contains the input and a read write window of a fixed finite size that works on that tape The first type of restarting automaton was presented at the international conference FCT in 1995 This type was required to restart as soon as it executes a rewrite operation that is the window jumps back to the left end of the tape and the finite state control is reset to the initial state Moreover each rewrite operation simply deletes one or more letters from the contents of the read write window Subsequently many different variants of the restarting automaton have been defined and studied In particular proper length reducing rewrite operations have replaced the original delete steps additional non input letters called auxiliary letters have been added to the alphabet and the original combined rewrite restart operation has been split into a rewrite operation and a separate restart operation Thus the restarting automaton is no longer just a particular type of automaton but it has evolved into a whole family of various types of automata that are specified through several parameters The objective of the current monograph is to collect the many results that have been obtained on the various types of restarting automata in one place and to present them in a uniform and systematic way In particular the influence of the various parameters on the expressive capacity of the resulting types of restarting automata is studied in detail Other topics include the descriptional complexity and inductive inference of certain types of restarting automata cooperating distributed and parallel communicating systems of restarting automata restarting automata with output weighted restarting automata and restarting automata for picture languages and tree languages This monograph may serve as a book of reference for researchers working in formal language and automata theory as a guide to the literature on restarting automata and as a text book for an advanced undergraduate or graduate course in formal language and automata theory

An Intellectual History of Science in the Renaissance

Raffaele Pisano,2025-09-09 This second of a two part volume Book II extends the historical scientific inquiry of first part volume Book I by considering other specific case studies within cultural fundamental technological frameworks An intellectual cultural history of science technology examines how human and their applied sciences experiences have been expressed in and trained by ideas and technologies The contributors explain ways in which the sciences allowed advanced modelling on the one hand and the development of new technological ideas on the other hand including methods and theories institutions engineering devices instrumentation and social implications as well Taking into account the excellence of the essays the book covers several branches and disciplines in science technology e g theoretical mathematics and the empirical work machinery and mechanisms stored information transportation inquiring methods in history and historiography of science technology It describes the ways it differently accounted for variation in unlike contexts and consequently how its results remain still nowadays a debated question as well as due to constraints preventing an extensive exploration of its remarkable

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