

- Motion of charge in Uniform Transverse Magnetic field-
 $F_m = qVB = mv^2/r$
 • Time period $T = \frac{2\pi R}{v} = \frac{2\pi m}{qB}$
- Radius of Circular path
 $r = \frac{mv}{qB} = \frac{p}{qB} = \frac{\sqrt{2mqV}}{qB} = \frac{\sqrt{2mqV}}{qB}$
- Magnetic force on a Current Carrying Conductor
 $\vec{F} = i(\vec{L} \times \vec{B})$
- Biot Savart's Law
 $dB = \frac{\mu_0 i d\vec{s} \sin\theta}{4\pi r^2}$
 → MF at Centre of a Circular coil $B = \frac{\mu_0 i}{2a}$
 → MF at a point on the axis of Current Carrying coil $B = \frac{\mu_0 2\pi Ni a^2}{4\pi (a^2 + x^2)^{3/2}}$
- Force b/w two Current Carrying parallel straight Conductor
 $F = \frac{\mu_0 2 i_1 i_2 l}{4\pi r}$
- 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 -

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

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

$$\tau = NIAB \sin\theta$$

• Moving Coil Galvanometer

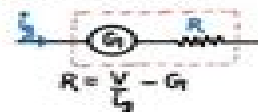
$$I \propto \theta \text{ or } I = G\theta$$

where $G = \frac{1}{NAB}$ - galvanometer constant

• Galvanometer Conversion into \downarrow Ammeter



$$S = \left(\frac{I_g}{I - I_g} \right) G$$



$$R = \frac{V}{I_g} - G$$

Sensitivity

• Current Sensitivity

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

• Voltage Sensitivity

$$V_s = \frac{\theta}{IR} = \frac{NAB}{KR}$$

• Magnetic field due to a Current Carrying Solenoid

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

Magnetism & Matter

• Bar Magnet as an Equivalent Solenoid

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

where m = magnetic moment of Solenoid $m = n(2l i (\pi r a^2))$

• Potential Energy of Magnetic dipole

$$U = -MB \cos\theta$$

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

$$I = \frac{M}{V} \quad \chi_m = \frac{I}{H}$$

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

• Curie's Law

→ For dia $\chi_m \propto T^{-1}$

→ For Paramagnetic $\chi_m \propto \frac{1}{T}$

→ For ferromagnetic $\chi_m \propto \frac{1}{T - T_c}$

$$B = \mu H \quad \mu_r = \frac{\mu}{\mu_0}$$

Gauss's Law for Magnetism

$$\oint \vec{B} \cdot d\vec{s} = 0$$

$$\mu_r = 1 + \chi_m$$

Magnetic field at a point due to magnetic dipole

$$B_{axial} = \frac{\mu_0 2Mr}{4\pi (r^2 + l^2)^{3/2}}$$

$$B_{eq} = \frac{\mu_0 M}{4\pi r^2 (r^2 + l^2)^{3/2}}$$

$$\text{or } B_{axial} = \frac{\mu_0 2M}{4\pi r^3}$$

$$\text{or } B_{eq} = \frac{\mu_0 M}{4\pi r^3}$$

Electromagnetic Induction

Magnetic flux

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

$$\phi = BA \cos\theta$$

Induced emf

$$E = -\frac{d\phi}{dt}$$

For rod

$$E = Bvl \sin\theta$$

$$\text{or } |E| = Bvl$$

$$F = \frac{B^2 l^2 v}{R}$$

$$P = \frac{B^2 l^2 v^2}{R}$$

Motional Emf

Rod Rotating

$$|E| = \frac{B\omega l^2}{2}$$

$$E = E_m \sin\omega t$$

$$E_m = N B \omega r$$

A.C. Generator

For disc

$$|E| = \frac{B\omega r^2}{2}$$

$$E = E_m \sin\omega t$$

$$E_m = N B \omega r$$

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

Coefficient of Self Induction

$$L = \frac{N \phi}{i} = \frac{-E}{di/dt}$$

Self inductance of a long Solenoid

$$L = \mu_0 \mu_r n^2 A l = \mu_0 \mu_r N^2 A / l$$

Mutual Inductance

$$M = \frac{N_2 \phi_1}{i_1} = \frac{-E_2}{di_1/dt} = \frac{-E_1}{di_2/dt}$$

Coefficient of Coupling

$$K = \frac{M}{\sqrt{L_1 L_2}}$$

Mutual Inductance of two long Solenoids

$$M = \mu_0 \mu_r \pi r_1^2 n_1 n_2 l = \mu_0 \mu_r N_1 N_2 A / l$$

Self Perfect Coupling

$$K=1 \quad M = \sqrt{L_1 L_2}$$

Combination of Inductors

Series $L_s = L_1 + L_2 + L_3$

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

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

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

Magnetic Energy

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

In Solenoid $U_B = \frac{1}{2} \mu_0 B^2 A l$

Magnetic energy density $u_B = \frac{U_B}{V}$

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

Induced Electric Field

$$\oint \vec{E} \cdot d\vec{l} = -\frac{d\phi_B}{dt} = -\frac{d(BA)}{dt} \neq 0$$

Induced charge flow

$$\Delta Q = I \Delta t = -N \Delta \phi_B / R$$

Alternating Current

Alternating Current

$$i = i_m \sin\omega t$$

Alternating voltage

$$V = V_m \sin\omega t$$

Reactance

$$X_L = \omega L \quad X_C = \frac{1}{\omega C}$$

R.M.S. Value of Current & Voltage

$$i_{rms} = \frac{i_m}{\sqrt{2}}$$

$$V_{rms} = \frac{V_m}{\sqrt{2}}$$

$$i_{rms} = 0.707 i_m \quad V_{rms} = 0.707 V_m$$

Mean value of Current & Voltage

$$i_{av} = \frac{2}{\pi} i_m$$

$$V_{av} = 0.637 V_m$$

$$i_{av} = 0.637 i_m \quad V_{av} = 0.637 V_m$$

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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 descriptive 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 is the second of a two-part volume. Book II extends the historical scientific inquiry of the first part volume, Book I, by considering other specific case studies within cultural and fundamental technological frameworks. An intellectual cultural history of science and technology examines how human and their applied sciences' experiences have been expressed in and shaped 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 and technology, e.g., theoretical mathematics and the empirical work, machinery, and mechanisms, stored information, transportation, inquiring methods in history, and historiography of science and 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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