

CHAPTER – 1

FUNDAMENTALS OF ELECTRICITY

Topics:

- 1. FUNDAMENTALS OF ELECTRICITY 4 Hrs**
 - 1.1 Current, (AC and DC Supply) voltage and resistance, their units, single phase and three phase supply
 - 1.2 Ohms law, simple calculations
 - 1.3 Laws of resistance, simple calculations
 - 1.4 Combination of resistances, simple calculations, capacitors and their combinations
 - 1.5 Electrical and mechanical power, their conversion, units, horse power
 - 1.6 Heating effect of current, joules law
 - 1.7 Electrical energy, units, energy bill
 - 1.8 Batteries and battery cells

Objectives:

- 1.1 Define units of current, voltage and resistance with respect to supply of single phase and three phase
- 1.2 Explain Ohm's Law with simple calculations
- 1.3 Solves simple problems on laws of resistance
- 1.4 Substitute two of the three variables to find the third unknown in equation $V = I \times R$
 - 1.4.1 Calculate the equivalent resistances for resistors joined in series, parallel and combination
 - 1.4.2 Calculate the total capacitance in series and parallel
- 1.5 Calculate electrical and mechanical power and the inter relation between the two systems
- 1.6 Heating effect of current, Jowls Law
- 1.7 Calculate the electrical energy consumption in an installation and prepare the energy bill
- 1.8 Define the inductors and its uses
- 1.9 Define RLC circuit and its uses
- 1.10 Define the batteries and battery cell
 - 1.10.1 Define primary and secondary battery
 - 1.10.2 State the types of primary and secondary batteries

Fundamentals Of Electricity Electromag

Jiyuan Zhang



Fundamentals Of Electricity Electromag:

The Top Books of the Year Fundamentals Of Electricity Electromag The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Fundamentals Of Electricity Electromag : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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