

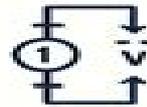
Applications and Basic Concepts of Electricity

Basic Concepts of Electricity



Definition of Electricity

The flow of electric charge, typically carried by electrons through a conductor such as copper wire



Current, Voltage, and Resistance

Current: The flow of electric charge measured in amperes (A)



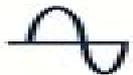
Types of Current

Direct Current (DC)
Current flows in one direction only (e.g. batteries)



Power and Energy

Power: The rate of electrical energy consumption, measured in watts (W)



Alternating Current (AC)

Current changes direction periodically (e.g. household electricity)

Energy: The total electrical work done, measured in kilowatt-hours (kWh)

Applications of Electricity



Domestic Applications

- Lighting
- Heating & cooling
- Entertainment
- Smart homes



Industrial Applications

- Machinery
- Manufacturing
- Automation & robotics
- Data centers



Medical Applications

- Medical equipment
- Surgical tools
- Patient monitoring
- Telemedicine



Transportation Applications

- Electric vehicles (EVs)
- Railways
- Aviation



Communication Applications

- Telecommunications
- Internet infrastructure
- Broadcasting



Agricultural Applications

- Irrigation systems
- Processing & storage
- Smart farming

Basic Concepts And Applications

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