



- A. Resistivity of materials
- B. Temperature relation
- C. Types
- D. Color code
- V. Series circuits
  - A. Voltage drops
  - B. Circuit current
  - C. Circuit power
  - D. Voltage divider
  - E. Ground reference
- VI. Parallel and series-parallel circuits
  - A. Voltage drops
  - B. Circuit current
  - C. Circuit power
  - D. Current divider
- VII. Capacitance
  - A. Properties of capacitors
  - B. Types
  - C. Time constants
  - D. Capacitors in series
  - E. Capacitors in parallel
- VIII. Magnetism
  - A. Magnetic field
  - B. Types of magnetic sources
  - C. Electromagnetism
- IX. Inductance
  - A. Properties of inductors
  - B. Types
  - C. Time constants
  - D. Inductors in series
  - E. Inductors in parallel
- X. Alternating current and voltage
  - A. Electromagnetic induction
  - B. The sine wave
  - C. Frequency
  - D. Amplitude
  - E. Transformers
- XI. Alternating current circuits
  - A. Reactive components
    - 1. Inductive reactance
    - 2. Capacitive reactance
  - B. Impedance
  - C. Resonance
  - D. Power
    - 1. Apparent

