

Chapter 20

- Electric charge: magnitude and sign. Coulomb's Law: $F = k \frac{q_1 q_2}{r^2}$
- Force of attraction or repulsion between two point charges. Direction of force.
- Electric field: direction and strength. Electric field lines.
- Electric potential: definition, units, and relationship to electric field.
- Equipotential surfaces: definition and properties.
- Capacitors: definition, energy storage, and combinations.



Force between two point charges. Coulomb's Law: $F = k \frac{q_1 q_2}{r^2}$



Electric field lines: direction and strength. Field lines are perpendicular to equipotential surfaces.



Electric dipole in an electric field. Torque: $\tau = p \times E$



Capacitors: energy stored in a capacitor. $U = \frac{1}{2} C V^2$



Series and parallel combinations of resistors. Equivalent resistance.



Magnetic field of a current loop. Biot-Savart Law.



Magnetic field of a solenoid. $B = \mu_0 n I$



Induced EMF: Faraday's Law. $\mathcal{E} = -\frac{d\Phi_B}{dt}$



Motional EMF: $\mathcal{E} = B l v$

Chapter 21

- Energy: definition and units. Kinetic energy, potential energy.
- Work: definition and units. Work done by a constant force.
- Power: definition and units. Average power.



Energy conservation: $E_{total} = K + U = constant$



Work done by a force: $W = F \cdot d \cdot \cos(\theta)$



Power: $P = \frac{W}{t}$

Capacitance - the ratio of energy to potential difference

Capacitance: $C = \frac{Q}{V}$

Capacitors in series: $\frac{1}{C_{total}} = \frac{1}{C_1} + \frac{1}{C_2} + \dots$

Capacitors in parallel: $C_{total} = C_1 + C_2 + \dots$

Dielectric constant: $\epsilon_r = \frac{C}{C_0}$



Dielectric - increases capacitance

Dielectric constant: $\epsilon_r = \frac{C}{C_0}$

Capacitance with dielectric: $C = \epsilon_r C_0$

Dielectric: increases capacitance. Dielectric constant ϵ_r .

VALUES OF CAPACITANCE

Series: $\frac{1}{C} = \frac{1}{C_1} + \frac{1}{C_2}$

Parallel: $C = C_1 + C_2$

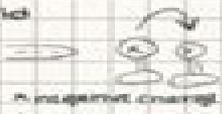
Parallel-plate capacitor: $C = \epsilon_0 \epsilon_r \frac{A}{d}$

GAUSS'S LAW SURFACES

- Hypothetical
- Closed surface
- enclosing the charges
- can have any shape

Flux of electric field: $\Phi_E = \oint \vec{E} \cdot d\vec{A}$

Gauss's Law: $\oint \vec{E} \cdot d\vec{A} = \frac{Q_{enc}}{\epsilon_0}$



Applications of Gauss's Law: infinite line charge, infinite sheet of charge, point charge.

Applications of Gauss's Law: infinite line charge, infinite sheet of charge, point charge.

Energy stored in a capacitor: $U = \frac{1}{2} C V^2$

Energy density in a capacitor: $u = \frac{1}{2} \epsilon_0 E^2$

Energy stored in a capacitor: $U = \frac{1}{2} Q \Delta V = \frac{1}{2} C (\Delta V)^2 = \frac{Q^2}{2C}$

Energy density in a capacitor: $u = \frac{1}{2} \epsilon_0 E^2$

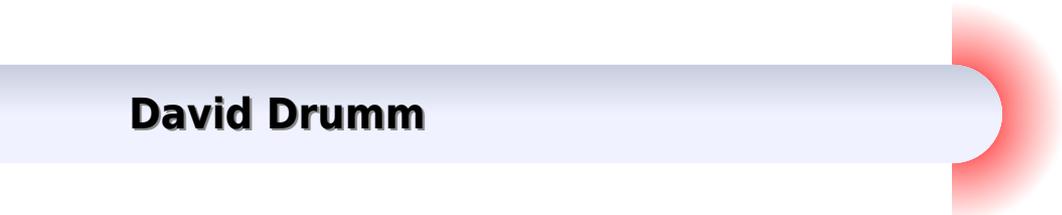
Energy stored in a capacitor: $U = \frac{1}{2} C V^2$

Energy density in a capacitor: $u = \frac{1}{2} \epsilon_0 E^2$

Energy stored in a capacitor: $U = \frac{1}{2} C V^2$

Electromagnetism Physics Study Guide

David Drumm



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Mechanical Theory of Electromagnetism Henry J. DeLaak,1910

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of welding wire are 045 and 035 a smaller diameter wire usually will make it easier to create a good weld Q 241 This is a

good recommendation for thinner materials but be careful using this approach on thicker materials _____ because there may be a risk of lack of fusion a 3 16 b 3 16 c 3 15 d 3 15 Ans A Exp This is a good recommendation for thinner materials but be

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