

GLOSSARY OF TERMS

Conductor	Material which permits electrons to flow freely
Couple	Two equal and opposite parallel forces that are applied to the same body
Dielectric	Insulating material between capacitor plates
Electric Impedance	Measure of the opposition that an electric circuit presents to the flow of current when voltage is applied
Electromagnetic Oscillations	Oscillations of the induction's magnetic field and the capacitor's electric field
EMF Device	Device or changes to maintain a potential difference between output terminals
Equipotential Surface	Adjacent points on a surface with the same electric potential; electric field is always perpendicular to equipotential surfaces
Ferromagnetic Material	Substance in which magnetization persists after the field has been removed
Force	Vector action of one body on another
Hydrogen	Neutral magnetism that is left when the material (such as iron) is slowly demagnetized
Islands	An attribute of bodies implying capacity to resist changes of motion
Insulator	Material that impedes conduction of electricity
Integrated Circuit	Complete circuit is contained in a single piece of semiconducting material
Magnetic Dipole	Simplest magnetic structure (such as a bar magnet) where net magnetic flux is zero
Mech	In circuit analysis, a loop that has no loop in its interior
Momentum	An attribute that is proportional to the mass and velocity of a body
Open Circuit	Path for current flow between 2 points is broken
Phase	A vector that rotates around an origin
Resistor	In a circuit network, a node (junction) with three or more branches
Resistance	Circuit property with capacitance and inductance
Resistivity	Changing AC to DC by blocking the reverse flow of a charge
Resonance	An oscillation of a system at its natural frequency
Semiconductor	Material that is not conductive nor insulating
Shearing Force	In mechanics, a force acting parallel to a plane
Short Circuit	Path for current flow between two points that zero impedance
Stress	In mechanics, the measure of internal forces of a body between particles resisting separation
Superconductor	Material that presents no resistance to the movement of electric charge
Torque	Rotating force or twisting moment
Torque	Torque applied in planes perpendicular to body's axis
Transformer	Electromagnetic device with 2 or more mutually coupled windings; it can raise and lower voltage in a circuit

MECHANICS FUNDAMENTALS

NEWTON'S LAWS OF MOTION

- Law I** Bodies will continue in uniform motion unless acted upon by external forces
- Law II** The rate of change of a body's linear momentum is proportional to, and in the direction of, force applied
 $\bullet F = dp/dt$
- Law III** Forces of action and reaction between bodies are equal in magnitude, opposite in direction, and collinear

DEFINITIONS OF EQUILIBRIUM

- Static equilibrium occurs when the results of all external forces acting on a body are zero

Equilibrium Equations

Scalar Equations are for planar, 2-dimensional, and 3-dimensional rigid body motion

- Vector relationships for a force system, $\sum F = 0$ and $\sum M = 0$
- Vector as components along x , y , and z -axis, relationships become $\sum F_x = 0$, $\sum F_y = 0$, $\sum F_z = 0$, $\sum M_x = 0$, $\sum M_y = 0$, and $\sum M_z = 0$

DEFINITION OF MOTION

- In mechanics, kinematics is the study of the motions of bodies as a function of time

- Linear** All points of a body follow congruent paths
- Rotational** Paths (circle) about an axis, velocity and acceleration are proportional to the radius
- Harmonic** Body moves back and forth about a position at rest
- Oscillation** Amplitude represents maximum deflection

Basic Derivatives of Kinematics

- Velocity** $v = \frac{dx}{dt}$ where x represents distance and t represents time
- Angular Velocity** $\omega = \frac{d\theta}{dt}$ where θ represents the angle
- Angular Acceleration** $\alpha = \frac{d\omega}{dt}$ where ω represents angular velocity

MOMENTS OF INERTIA

- Define the relationship between the area (or mass) of a body and the position of a line
- Moment of inertia of a figure = sum of moments of its parts

Area Moments of Inertia, I (Statics)

- Measuring the distribution of area about an axis:
 $I_x = \int y^2 dA$
 $I_y = \int x^2 dA$
 $I_{xy} = \int xy dA$



Mass Moments of Inertia, I (Dynamics)

- Measuring the moment of inertia of a volume:
 $I_x = \int r^2 dm = \int r^2 \rho dV$



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Table of Contents Electrical Engineering Study Guide 2015

1. Understanding the eBook Electrical Engineering Study Guide 2015
 - The Rise of Digital Reading Electrical Engineering Study Guide 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrical Engineering Study Guide 2015
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electrical Engineering Study Guide 2015
 - User-Friendly Interface

4. Exploring eBook Recommendations from Electrical Engineering Study Guide 2015
 - Personalized Recommendations
 - Electrical Engineering Study Guide 2015 User Reviews and Ratings
 - Electrical Engineering Study Guide 2015 and Bestseller Lists
5. Accessing Electrical Engineering Study Guide 2015 Free and Paid eBooks
 - Electrical Engineering Study Guide 2015 Public Domain eBooks
 - Electrical Engineering Study Guide 2015 eBook Subscription Services
 - Electrical Engineering Study Guide 2015 Budget-Friendly Options
6. Navigating Electrical Engineering Study Guide 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Electrical Engineering Study Guide 2015 Compatibility with Devices
 - Electrical Engineering Study Guide 2015 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrical Engineering Study Guide 2015
 - Highlighting and Note-Taking Electrical Engineering Study Guide 2015
 - Interactive Elements Electrical Engineering Study Guide 2015
8. Staying Engaged with Electrical Engineering Study Guide 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrical Engineering Study Guide 2015
9. Balancing eBooks and Physical Books Electrical Engineering Study Guide 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrical Engineering Study Guide 2015
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Electrical Engineering Study Guide 2015
 - Setting Reading Goals Electrical Engineering Study Guide 2015
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Electrical Engineering Study Guide 2015
 - Fact-Checking eBook Content of Electrical Engineering Study Guide 2015
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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