

## GLOSSARY OF TERMS

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

Vector 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  $\theta$  represents the angle
- Angular Acceleration**  $\alpha = \frac{d\omega}{dt}$  where  $\omega$  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 (planar)

- 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:  
 $I_x = \int r^2 dm = \int r^2 \rho dV$



# Electrical Engineering Study Guide

**S Ashworth**



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