

# ELECTRICAL ENGINEERING

## 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
<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 change 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>Hydrostatic</b>	Applied magnetism that is left when the material (such as iron) is slowly demagnetized
<b>Inertia</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 semiconductor material
<b>Magnetic Dipole</b>	Simplest magnetic structure (such as a bar magnet) where net magnetic flux is zero
<b>Mesh</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>Resistor</b>	In a circuit network, a node (junction) with three or more branches
<b>Reactance</b>	Circuit property with capacitance and inductance
<b>Rectification</b>	Changing AC to DC by blocking the reverse flow of a charge
<b>Resonance</b>	An oscillation of a system of 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 has 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>	Rotary force or twisting moment
<b>Torsion</b>	Torque applied to plates 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 1** Bodies will continue in uniform motion unless acted upon by external forces
- Law 2** The rate of change of a body's linear momentum is proportional to, and in the direction of, force applied  
 $F = dp/dt$
- Law 3** Forces of action and reaction between bodies are equal in magnitude, opposite in direction, and collinear

### CONDITIONS OF EQUILIBRIUM

- Static equilibrium occurs when the resultant of all external forces acting on a body is zero
- Equilibrium Equations**
- Static Equations are for planar, 2-dimensional, and 3-dimensional rigid body statics
- Static relationships for a force system:  $\sum F = 0$  and  $\sum M = 0$
  - Static equilibrium components along x, y, and z axes, 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 trace 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

### DEFINITION OF MASS

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

### Area Moments of Inertia, J (cm<sup>4</sup>)

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



# Electro Technic Engineering Study Guide

**N Colangelo**



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