

BASIC ELECTRIC FORMULAS

ELECTRIC FORCE AND FIELD

$$F_e = k \frac{|q_1| |q_2|}{R^2}$$

$$\vec{F}_e = q \vec{E}$$

$$\vec{E} = k \frac{|q|}{R^2}$$

$$\Phi_e = EA \cos \theta$$

$$\epsilon_0 = \frac{1}{4\pi k}$$

ELECTRICAL POTENTIAL

$$V = kQ$$

$$PE_e = k \frac{q_1 q_2}{R}$$

$$W_e = q \Delta V$$

$$E = \frac{\Delta V}{d}$$

CAPACITANCE

$$C = \frac{Q}{\Delta V}, Q = -C \Delta V, \Delta V = \frac{Q}{C}$$

$$U = \frac{1}{2} Q \Delta V, U = \frac{1}{2} C V^2,$$

$$U = \frac{Q^2}{2C}$$

$$\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3} \dots$$

$$C_p = C_1 + C_2 + C_3 \dots$$

$$C = k \epsilon_0 A / d$$

FARADAY'S LAW

$$\Phi_m = BA \cos \theta$$

$$\mathcal{E}_{ind} = -N \frac{\Delta \Phi_m}{\Delta t}$$

$$\mathcal{E}_{ind} = -BLv$$

TRANSFORMER

$$\frac{\Delta V_{in}}{\Delta V_{out}} = \frac{N_p}{N_s}$$

INDUCTANCE

$$\mathcal{E} = -L \frac{\Delta I}{\Delta t}, L = \frac{N \Phi_m}{I}$$

$$U = \frac{1}{2} LI^2$$

RESISTANCE AND CURRENT

$$\Delta V = IR, I = \frac{\Delta V}{R}$$

$$R = \frac{\Delta V}{I}, P = I \Delta V,$$

$$P = I^2 R, P = \frac{\Delta V^2}{R}$$

$$R_s = R_1 + R_2 + R_3 \dots$$

$$R_p = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} \dots$$

$$\sum_{loop} \Delta V_i = 0, J = \frac{I}{A}$$

$$\mathcal{E} = \Delta V + Ir = I(R + r)$$

$$J = \sigma E, R = \frac{\rho L}{A}$$

$$\omega_0 = \frac{1}{\sqrt{LC}} = 2\pi f_0$$

MAGNETIC FIELD & FORCE

$$F_m = |q| v B \sin \theta$$

$$F_m = I L B \sin \theta$$

$$\tau_{net} = I A B \sin \theta$$

$$B = \frac{\mu_0 I}{2\pi r}, B = \frac{\mu_0 I}{2a}$$

$$B = \frac{\mu_0 N I}{L} = \mu_0 n I$$

AC CIRCUITS

$$Z = \sqrt{R^2 + (X_L - X_C)^2}, \Delta V_{rms} = \frac{\Delta V_m}{\sqrt{2}}$$

$$\phi = \tan^{-1} \left(\frac{X_L - X_C}{R} \right), I_{rms} = \frac{I_m}{\sqrt{2}}$$

Basic Electrical Formulas

**United States. Department of the
Army**



Basic Electrical Formulas:

Basic Electrical Engineering Mehta V.K. & Mehta Rohit, 2008 For close to 30 years Basic Electrical Engineering has been the go to text for students of Electrical Engineering Emphasis on concepts and clear mathematical derivations simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject Divided into 17 chapters the book covers all the major topics such as DC Circuits Units of Work Power and Energy Magnetic Circuits fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand

Basic Electrical Formulae Andrew Butler, 2006 A simple to use quick reference guide to basic electrical formulae containing worked examples of how to find Reactance Impedance Resistance Voltage Reactance Apparent True Power Horse Power and Current in ac dc circuits for both single and three phase wiring systems How the properties of triangles can be used when making calculations Also includes a brief guide to Power Factor Volt Drop and sizing of cables

Handbook of Basic Electricity M. Fogiel, U S Naval Personnel, Research and Education Association, 2002-01-01 REA's Handbook of Basic Electricity The material in this handbook was prepared for electrical training courses It is a practical manual that enables even the beginner to grasp the various topics quickly and thoroughly REA's Handbook of Basic Electricity is one of a kind in that it teaches the concepts of basic electricity in a way that's clear to the point and very easy to understand It forms an excellent foundation for those who wish to proceed from the basics to more advanced topics Numerous illustrations are included to simplify learning theories and their applications Direct current and alternating current devices and circuits are explained in detail Magnetism as well as motors and generators are described to give the reader a thorough understanding of them The Handbook of Basic Electricity is an excellent resource for the layperson as well as licensed electricians

Handbook of Basic Electricity U. S. Naval Personnel Staff, Research & Education Association Editors, 2012-04-27 The material in this book was prepared for electrical training courses It is a practical manual that enables even the beginner to grasp the various topics quickly and thoroughly The book is one of a kind in that it teaches the concepts of basic electricity in a way that's clear to the point and very easy to understand It forms an excellent foundation for those who wish to proceed from the basics to more advanced topics Numerous illustrations are included to simplify learning both theories and their applications Direct current and alternating current devices and circuits are explained in detail Magnetism as well as motors and generators are described to give the reader a thorough understanding of them The book is an excellent resource for the layperson as well as licensed electricians

Basic Electricity United States. Bureau of Naval Personnel, 1956

Basic Electrical Principles Maurice Grayle Suffern, 1949

Basic Electricity United States. Department of the Army, 1977

Technical Manual: Design of Electric Systems for Naval Aircraft and Missiles United States. Naval Air Systems Command,

Mike Holt's Guide to Electrical Formulas with Sample Calculations Mike Holt, 2015-08-01

Basic Electricity U.S. Bureau of Naval

Personnel,2012-05-09 Originally a training course best nontechnical coverage Topics include batteries circuits conductors AC and DC inductance and capacitance generators motors transformers amplifiers etc Many questions with answers 349 illustrations 1969 edition

Unveiling the Magic of Words: A Review of "**Basic Electrical Formulas**"

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