

Basic Electrical Engineering Formulas And Equations

Electrical Formulas

These are the Basic Electrical Formulas, Related to Ohm's Law,

Variables used in these formulas are as follows:

V = Voltage in Volts

I = Current in Amperes

R= Resistance in Ohms

Power = In Watts

Voltage Formulas

$$V=IR, \quad V=PI, \quad V=\sqrt{P \times R}$$

Current Formulas

$$I = V/R, \quad I=P/V, \quad I=\sqrt{P/R}$$

Resistance Formulas

$$R=V/I, \quad R=P/I^2, \quad R=P/V^2$$

Power Formulas

$$P=VI, \quad P=I^2R, \quad P=V^2/R$$

Following are several additional formulas, which are useful for calculating Current, Horsepower, kW, and kVA for both Single Phase & Three Phase AC Current,

HP= Horsepower

EFE = EfficiencyFactor (Use 0.9 when not mentioned)

PF=Power Factor (Use 0.8 when not mentioned)

AC = Alternating Current

To Find:	Single-Phase	Three Phase
Current, when Motor Hp is known	$\frac{HP \times 746}{V \times EFE \times PF}$	$\frac{HP \times 746}{V \times EFE \times PF \times 1.73}$
Ampers, when kW is known	$\frac{kW \times 1000}{V \times PF}$	$\frac{kW \times 1000}{V \times PF \times 1.73}$
Current, when kVA is Known	$\frac{kVA \times 1000}{V \times PF}$	$\frac{kVA \times 1000}{V \times 1.73}$
kilowatts (kW)	$\frac{V \times I \times PF}{1000}$	$\frac{V \times I \times PF \times 1.73}{1000}$
kW input, when Motor HP is Known	$\frac{HP \times 0.746}{EFE}$	$\frac{HP \times 0.746}{EFE}$
kilovolt-Amperes (kVA)	$\frac{V \times I}{1000}$	$\frac{V \times I \times 1.73}{1000}$
Horsepower (HP)	$\frac{V \times I \times EFE \times PF}{746}$	$\frac{V \times I \times EFE \times PF \times 1.73}{746}$

Useful Electrical Formulas

To Obtain	Single Phase	Three Phase
kilowatts	$\frac{V \times L \times PF}{1000}$	$\frac{1.732 \times V \times L \times PF}{1000}$
kV-A	$\frac{V \times L}{1000}$	$\frac{1.732 \times V \times L}{1000}$
Horsepower required when generator kW unknown (if generator efficiency is unknown, use 0.93)	$\frac{kW}{0.746 \times \text{Efficiency (Generator)}}$	$\frac{kW}{0.746 \times \text{Efficiency (Generator)}}$
kW input when motor hp known (if motor efficiency is unknown, use 0.85 x hp)	$\frac{HP \times 0.746}{\text{Efficiency (Motor)}}$	$\frac{HP \times 0.746}{\text{Efficiency (Motor)}}$
Ampers when motor hp is known	$\frac{HP \times 0.746}{V \times PF \times \text{Efficiency}}$	$\frac{HP \times 0.746}{1.732 \times V \times PF \times \text{Efficiency}}$
Ampers when kW is known	$\frac{kW \times 1000}{V \times PF}$	$\frac{kW \times 1000}{1.732 \times V \times PF}$
Ampers when kW-A is known	$\frac{kV-A \times 1000}{V}$	$\frac{kV-A \times 1000}{1.732 \times V}$

Vtu Important Basic Electrical Engg Formulas

Nicolas Gascoin, E. Balasubramanian



Vtu Important Basic Electrical Engg Formulas:

A Textbook of Engineering Physics M N Avadhanulu, 2008 A Textbook of Engineering Physics is written with two distinct objectives to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

Engineering Physics K.V.S. Ganeswara Rao, 2008 Written according to syllabus of Viswesvaraya Technological University, Belgaum, Karnataka. Smart Sensors Measurements and Instrumentation Santhosh K V, K. Guruprasad Rao, 2021-05-10 This book presents the select proceedings of Control Instrumentation and System Conference CISCON 2020 held at Manipal Institute of Technology, MAHE, Manipal. It examines a wide spectrum covering the latest trends in the fields of instrumentation, sensors and systems, and industrial automation and control. The topics covered include image and signal processing, robotics, renewable energy, power systems, and power drives. Performance attributes of MEMS, multi-sensor data fusion, machine learning, optimization techniques, process control, safety monitoring, safety-critical control, supervisory control, system modeling, and virtual instrumentation. The book is a valuable reference for researchers and professionals interested in sensors, adaptive control, automation, and control and allied fields. Transactions of the American Institute of Electrical Engineers American Institute of Electrical Engineers, 1955 **Electromagnetic Field Theory** Uday A. Bakshi, Late Ajay V. Bakshi, 2020-11-01 The comprehensive study of electric, magnetic, and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence, the book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law, divergence, and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential, and potential difference and the energy in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions, and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use in a variety of practical applications. The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law, and its applications, concept of curl, Stokes's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element, and magnetic boundary conditions. The book covers all the details of Faraday's laws, time-varying fields, Maxwell's equations, and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves, including their propagation in free space, perfect dielectrics, lossy dielectrics, and good conductors. The book uses plain, lucid language to explain each topic. The book provides the logical

method of explaining the various complicated topics and stepwise methods to make the understanding easy The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students Each chapter is well supported with necessary illustrations and self explanatory diagrams The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering Nicolas Gascoin,E. Balasubramanian,2020-09-26 This book gathers the best articles presented by researchers and industrial experts at the International Conference on Innovative Design Analysis and Development Practices in Aerospace and Automotive Engineering I DAD 2020 The papers discuss new design concepts and analysis and manufacturing technologies with a focus on achieving improved performance by downsizing improving the strength to weight ratio fuel efficiency and operational capability at room and elevated temperatures reducing wear and tear addressing NVH aspects while balancing the challenges of Euro VI Bharat Stage VI emission norms greenhouse effects and recyclable materials Presenting innovative methods this book is a valuable reference resource for professionals at educational and research organizations as well as in industry encouraging them to pursue challenging projects of mutual interest

Electrical and Electronics Engineering Formulas Dhivya Nandhini,2018-11-08 Electrical and Electronics Engineering Formulas shows how concepts evolve out with the help of some equations like the equation for electric current and potential difference Eventually formulas are used to provide engineering solution for real world problems Formulas can be a theory or principle an equation a logical relation with numbers symbols and variables that signifies the relationship between variables Simple possession of the individual knowledge and talents assures engineering professionals to design the devices and processes that comprises of engineering inventions and their practices An engineer must identify how to relate to the knowledge of solved problems and comprehend the present need to synthesize new solutions The book contains concepts of electricals and electronics symbols parameters numbers units or any combination of them for a basic understanding of this niche subject The book serves as a compendium of engineering formulas for Electrical and electronics engineers university students of engineering and employees at electrical and electronics companies in general Author focuses on Engineering formulas to usher so they can never be bored of Engineering

Basic Electrical Engineering (As Per Vtu Syllabus) C.L. Wadhwa,2007-01-01 *Pocket Book of Electrical Engineering Formulas* Richard C. Dorf,2018-04-27 Pocket Book of Electrical Engineering Formulas provides key formulas used in practically all areas of electrical engineering and applied mathematics This handy pocket sized guide has been organized by topic field to make finding information quick and easy The book features an extensive index and is an excellent quick reference for electrical engineers educators and students

Government Reports Announcements & Index ,1986

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 **Understand Electrical and Electronics Maths** Owen Bishop,2013-10-22 Understand Electrical and Electronics Maths covers elementary maths and the aspects of electronics The book discusses basic maths including quotients algebraic fractions logarithms types of equations and balancing of equations The text also describes the main features and functions of graphs and the solutions to simpler types of electronics problems The book then tackles the applications of polar coordinates in electronics limits differentiation and integration and the applications of maths of rates of change in electronics The activities of an electronic circuit techniques of mathematical modeling systematic techniques for dealing with the more difficult sets of simultaneous equations alternating currents and voltages and analysis of waveforms are also considered The book provides answers to exercises for each chapter Students taking electronics and courses related to electrical engineering at levels up to and including higher national certificate and diploma will find the book useful **Principles of Electrical Engineering** William Henry Timbie,Vannevar Bush,1922 Electrical Engineering Ralf Kories,Heinz Schmidt-Walter,2003-07-09 This is a superb source of quickly accessible information on the whole area of electrical engineering and electronics It serves as a concise and quick reference with self contained chapters comprising all important expressions formulas rules and theorems as well as many examples and applications *Basic Electrical Engineering* Arthur Eugene Fitzgerald,David E. Higginbotham,Arvin Grabel,1981 **Foundations of Electrical Engineering** K. Simonyi,2016-06-03 Foundations of Electrical Engineering covers the fundamental ideas and basic laws in electrical engineering This book is organized into five parts encompassing 24 chapters Part I provides an overview of the Maxwell s equation and its significance in electrical engineering Part II deals first with the determination of static and steady electric fields This part also discusses the solution of Laplace s equation boundary value problems the concept of capacity and magnetic field Parts III and IV explore the laws of network analysis and synthesis as well as the basic principles and applications of electromagnetic waves These parts also describe the main features of classical electrodynamics and its application to problems of electrical engineering Part V highlights the combined contributions of Maxwell s equations and the laws of mechanics in the subject field Electrical engineers and electrical engineering teachers and students will find this book invaluable **Handbook of Electronic Formulas, Symbols and Definitions** John R. Brand,2012-12-06 The Handbook of Electronics Formulas Symbols and Definitions has been compiled for engineers technicians armed forces personnel commercial operators students hobbyists and all others who have some knowledge of electronic terms symbols and theory The author s intention has been to provide A small light reference book that may be easily carried in an attache case or kept in a desk drawer for easy access A source for the majority of all electronic formulas sym bols and definitions needed or desired for today s passive and active analog circuit technology A format in which a desired formula may be located almost instantly without the use of an index in the desired

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Basic Electrical Engineering (Vel Tech) SK Sahdev, Attuned to the needs of undergraduate students of engineering in their first year Basic Electrical Engineering enables them to build a strong foundation in the subject A large number of real world examples illustrate the applications of complex theories The book comprehensively covers all the areas taught in a one semester course and serves as an ideal study material on the subject

Handbook of Basic Electrical Engineering Formulae Harish C Rai, Shivanshu Rai, 2018-06-30 Handbook of Basic Electrical Engineering Formulae has been designed to cater to the needs of practising engineers as well as undergraduate students of electrical engineering who wish to have a ready reference to formulae equations methods concepts and their mathematical formulations It is a comprehensive practical reference book which will be found extremely useful by all practising engineers irrespective of their individual domains to tackle day to day problems in the field of electrical engineering It contains a plethora of formulae graphs and tables presented in a clear and concise manner

Introduction to Electrical Engineering Mansell H. Hopkins, H. Richard Skutt, 1972

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