# **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=txR, V=P/I, V= \PxR

I = V/R , I=P/V , I= \P/R

Resistance Formulas R=VII. R=P/V<sup>2</sup>, R=P/I<sup>2</sup>

Power Formulas PeVxl. PeV/R. PelxR 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	HP×746	HP x 746						
Motor Hp is known	V×EFE×PF	V xEFE x PF x 1.73						
Ampers, when VIV is knon	JAN = 1000	KW x 1000 V x PF x 1.73						
Current, when KVA is Known	Clvil	WA x 1000 V x 1.73						
klowatts	Vx1xPF	Vx1xPFx1.73						
(kW)	1000	1000						
kW input, when	HP x 0.746	HP x 0.746						
Motor HP is Known	EFE	EFE						
kilovolt-Amperes	V×1	Vx1x1.73						
(kVA)	1000	1000						
Horsepower	VxIIEFEXPF	V x 1:EFE x PF x 1.73						
(HP)	746	748						

To Obtain	Single Phase†	Three Phase†
Klowatts	V x L x PF 1000	1.732 × V × L × PF 1000
KV-A	V×L 1000	1.732 × V × L 1000
Horsepower required when generator kW unknown (if generator efficiency is unknown, use 0.93)	0.746 x Efficiency (Generator)	kW 0.745 x Efficienc (Generator)
kW input when motor hp known (if motor effi- ciency is unknown, use 0.85 x hp)	HP x 0.746 Efficiency (Motor)	HP x 0,746 Efficiency (Motor
Amperes when motor hp is known	HP x 0.746 V x PF x Efficiency	HP × 0.746 1.732 × V × PF × Efficiency
Ampères when KW is known	WW x 1000 V x PF	kW × 1000 1.732 × V × PF
Amperes when kW-A is known	$\frac{\text{MV-A} \times 1000}{\text{V}}$	kV-A × 1000 1.732 × V

## **All Electrical Engineering Equation And Formulas**

**M** Walker

#### **All Electrical Engineering Equation And Formulas:**

**Pocket Book of Electrical Engineering Formulas** Richard C. Dorf, Ronald J. Tallarida, 1993-07-15 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

**Electrical Engineer**, 1888 The Electrical Engineer, 1900 The Electrical Engineering Handbook Wai Kai Chen, 2004-11-16 The Electrical Engineer's Handbook is an invaluable reference source for all practicing electrical engineers and students Encompassing 79 chapters this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students This text will most likely be the engineer's first choice in looking for a solution extensive complete references to other sources are provided throughout No other book has the breadth and depth of coverage available here This is a must have for all practitioners and students The Electrical Engineer's Handbook provides the most up to date information in Circuits and Networks Electric Power Systems Electronics Computer Aided Design and Optimization VLSI Systems Signal Processing Digital Systems and Computer Engineering Digital Communication and Communication Networks Electromagnetics and Control and Systems About the Editor in Chief Wai Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems He was Editor in Chief of the IEEE Transactions on Circuits and Systems Series I and II President of the IEEE Circuits and Systems Society and is the Founding Editor and Editor in Chief of the Journal of Circuits Systems and Computers He is the recipient of the Golden Jubilee Medal the Education Award and the Meritorious Service Award from the IEEE Circuits and Systems Society and the Third Millennium Medal from the IEEE Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science 77 chapters encompass the entire field of electrical engineering THOUSANDS of valuable figures tables formulas and definitions Extensive bibliographic references Electrical Engineer's Reference Book M. A. Laughton, D.F. Warne, 2002-09-27 For ease of use this edition has been divided into the following subject sections general principles materials and processes control power electronics and drives environment power generation transmission and distribution power systems sectors of electricity use New chapters and major revisions include industrial instrumentation digital control systems programmable controllers electronic power conversion environmental control hazardous area technology electromagnetic compatibility alternative energy sources alternating current generators electromagnetic transients power system planning reactive power plant and FACTS controllers electricity economics and trading power quality An essential source of techniques data and principles for all practising electrical engineers Written by an international team of experts from engineering companies and universities Includes a major new section on control systems

PLCs and microprocessors **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 Generalized Sylvester Equations Guang-Ren Duan, 2015-06-09 Provides One Unified Formula That Engineering ,1896 Gives Solutions to Several Types of GSEsGeneralized Sylvester equations GSEs are applied in many fields including applied mathematics systems and control and signal processing Generalized Sylvester Equations Unified Parametric Solutions presents a unified parametric approach for solving various types of GSEs The Electrical World and Electrical Engineer Transactions of the American Institute of Electrical Engineers American Institute of Electrical .1899 Engineers, 1922 List of members in v 7 15 17 19 20 Transactions of the American Institute of Electrical Engineers ,1922 Engineering News-record .1904 Railway Electrical Engineer ,1926 **Electrical Engineering and Telephone** Magazine ,1898 Vols 1 2 include a Syntopical index to current electrical literature **Electrical Review and Western** Electrician with which is Consolidated Electrocraft ,1916 New York Review of the Telegraph and Telephone and Electrical Journal .1916 Proceedings of the Institution of Electrical Engineers Institution of Electrical Engineers, 1916 Vols for 1970 79 include an annual special issue called IEE reviews **Journal of the Institution of Electrical Engineers** A Course in Mathematical Analysis: pt.2. Differential equations. [c1917 Edouard Goursat, 1916] .1916 Engineering **Formulas Interactive** Frank Sims, 1999 With IntellisimTM a powerful interactive math engine developed by Intellipro Inc you can use the CD ROM to quickly perform dynamic calculations and analysis on over 100 of the most popular equations in this book If you re a designer project engineer plant engineer or engineering student you will find the answer when you need it Engineering Formulas Interactive may become the single most useful reference on your bookshelf and in your computer Minimum system requirements Windows 3 1 95 98 NT CD ROM Drive 16MB available RAM 10MB available HD space VGA compatible monitor IntellismTM allows you to change parameters at will calculate results easily graphically plot results evaluate formulas for a range of values and copy formulas and results to clipboard Intellism TM supports algebraic

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