

# 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	$\frac{kVA \times 1000}{V \times PF}$	$\frac{kVA \times 1000}{V \times PF \times 1.73}$
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	$\frac{kV-A \times 1000}{V}$	$\frac{kV-A \times 1000}{1.732 \times V}$

# All Basic Electrical Engineering Formulas

**Michael Hoelscher**



## **All Basic Electrical Engineering Formulas:**

*Basic Electrical Engineering* K. N. Srinivas, 2013-12-30 The aim of this book is to provide a consolidated text for the first year B E Computer Science and Engineering students and B Tech Information Technology students of Anna University The syllabus has been thoroughly revised for the non semester yearly pattern by the University The book made up of five chapters systematically covers the five units of the syllabus It begins with a detailed discussion on the fundamentals of electric circuits DC circuits AC circuits 3 phase circuits resonance and the network theorems Lecture type presentation of the rudiments of the fundamentals in conjunction with hundreds of solved examples is the strength of this book Magnetic circuits and various magnetic elements and their properties with number of illustrations are presented DC machines and transformers are further dealt with Equivalent circuits of machines supported with the respective photographs will ease the reader to understand the concepts of machines much better Synchronous machines and asynchronous machines and fundamentals of control systems with various practical examples and relevant worked illustrations conclude this book A large number of numerical illustrations and diagrammatic representations make this book valuable for students and teachers

**Basic Electrical Engineering: Principles, Designs and Applications** Vibhav Kumar Sachan, Syed Akhtar Imam, 2024-11-18 Basic Electrical Engineering Principles Designs and Applications has been widely utilized in recent years in electrical engineering microprocessors electrical drives and power electronics research among other fields This book aims to cater to the needs of the undergraduate courses in the discipline of Electronics Communication Engineering Electronics Instrumentation Engineering Electrical Electronics Engineering Instrumentation and Control Engineering and postgraduate students specializing in Electronics Control Engineering It will also serve as reference material for engineers employed in industry The fundamental concepts and principles behind transformers three phase circuits and electrical generators and motors are explained in a simple easy to understand manner Each chapter contains a good number of short answers and of multiple choice questions with explanation which makes the book quite useful for Indian Engineering Service IES Graduate Aptitude Test in Engineering GATE National Eligibility Test NET State Eligibility Test SET University Grants Commission Council of Scientific Industrial Research UGC CSIR and other entrance examinations

**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

**Basic Electric Circuit Theory** Isaac D. Mayergoyz, W. Lawson, 2012-12-02 This is the only book on the market that has been conceived and deliberately written as a one semester text on basic electric circuit theory As such this book employs a novel approach to the exposition of the material in which phasors and ac steady state analysis are introduced at the beginning This allows one to use phasors in the discussion of transients excited by ac sources which makes the presentation of transients more comprehensive and meaningful Furthermore the machinery of phasors paves the road to the introduction of transfer functions which are then used in the analysis of transients and the discussion of Bode plots and filters Another salient feature of the text is the consolidation into one chapter of the material concerned with dependent sources and operational amplifiers Dependent sources are introduced as linear models for transistors on the basis of small signal analysis In the text PSpice simulations are prominently featured to reinforce the basic material and understanding of circuit analysis Key Features Designed as a comprehensive one semester text in basic circuit theory Features early introduction of phasors and ac steady state analysis Covers the application of phasors and ac steady state analysis Consolidates the material on dependent sources and operational amplifiers Places emphasis on connections between circuit theory and other areas in electrical engineering Includes PSpice tutorials and examples Introduces the design of active filters Includes problems at the end of every chapter Priced well below similar books designed for year long courses

Complex Variables and Partial Differential Equations: For the Gujarat Technological University (GTU) Ravish R Singh & Mukul Bhatt, This book has been designed specifically for the Gujarat Technological University GTU syllabus and for the students of engineering in their Third Semester Eight dedicated chapters are set to sequentially cover each module of the syllabus and are compounded by the tutorial technique i e theory followed by example s so that the learner develops an increased sense of conscious intellection This exceptional mix of theory and application caters to all types of requirements be it the student or the teacher Not only is the syllabus rigorously followed but each topic has also been treated with the end examination in sight Concepts are well aided with solved examples of different complexities so that every learner understands the topic at hand

**Basic Electrical Engineering** Arthur

Eugene Fitzgerald,1945      **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      **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** ,1895      **The Electrical Engineer** ,1899      *Engineering Mechanics Devoted to Mechanical Civil, Mining and Electrical Engineering* ,1892      **Applied Mechanics Reviews** ,1949      The Electrical Journal ,1896      **Foundations of Electrical Engineering** Károly Simonyi,1963      **The Electrical Review** ,1894      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      **Electrical World** ,1907-07      Engineering News and American Contract Journal ,1895      *The Electrical World* ,1894      **Electrical Engineering** ,1912

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