

# 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

$$I = VR, \quad I=PI, \quad I = \sqrt{PI}$$

### Resistance Formulas

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

### 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 = Efficiency Factor ( 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	$\frac{kVA \times 1000}{V}$	$\frac{kVA \times 1000}{V \times 1.73}$
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	$\frac{V \times L \times PF}{1000}$	$\frac{1.732 \times V \times L \times PF}{1000}$
kVA	$\frac{V \times L}{1000}$	$\frac{1.732 \times V \times L}{1000}$
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 kVA is known	$\frac{kVA \times 1000}{V}$	$\frac{kVA \times 1000}{1.732 \times V}$

# All Basic Electrical Engineering Formulas

**Puja Mehta**



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

**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.

**A Textbook of Electrical Technology - Volume I (Basic Electrical Engineering)** BL Theraja, 2005

The primary objective of vol I of A Text Book of Electrical Technology is to provide a comprehensive treatment of topics in Basic Electrical Engineering both for electrical as well as nonelectrical students pursuing their studies in civil, mechanical, mining, textile, chemical, industrial, environmental, aerospace, electronic and computer engineering both at the Degree and diploma level. Based on the suggestions received from our esteemed readers both from India and abroad, the scope of the book has been enlarged according to their requirements. Almost half the solved examples have been deleted and replaced by latest examination papers set up to 1994 in different engineering colleges and technical institutions in India and abroad.

**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 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 **Electrical**

**Engineering** ,1909 *Journal of the American Institute of Electrical Engineers* American Institute of Electrical Engineers,1924 Includes preprints of Transactions of the American Institute of Electrical Engineers ISSN 0096 3860

**Illinois Technograph** ,1947 Non-Linear Differential Equations Frankie Murray &,2019-11-02 Regarding the matter of differential equations a considerable number of rudimentary books have been composed This book overcomes any issues between rudimentary courses and the examination writing The essential ideas important to contemplate differential equations basic focuses and balance occasional arrangements invariant sets and invariant manifolds are examined Security hypothesis is created beginning with linearisation methods backpedaling to Lyapunov and Poincare The global direct method is then examined To acquire more quantitative data the Poincare Lindstedt method is acquainted with estimated occasional arrangements while in the meantime demonstrating presence by the certain capacity hypothesis The method of averaging is presented as a general estimation standardization method The last four sections acquaint the peruser with unwinding motions bifurcation hypothesis focus manifolds disarray in mappings and differential equations Hamiltonian frameworks repeat invariant tori intermittent arrangements The book displays the subject material from both the subjective and the quantitative perspective There are numerous cases to delineate the hypothesis and the peruser ought to have the capacity to begin doing research in the wake of concentrate this book Blast Furnace and Steel Plant ,1930 The Electrical Journal

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