

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	$\frac{kVA \times 1000}{V \times 1.73}$	$\frac{kVA \times 1000}{V \times 1.73}$
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 kV-A is known	$\frac{kV-A \times 1000}{V}$	$\frac{kV-A \times 1000}{1.732 \times V}$

All Basic Electrical Engineering Formulas

Michal Rosen-Zvi



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

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

Electrical World, 1894 **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 Engineering ,1909 Mechanical Aptitude Test Study Guide Darcy West,2025-03-12 Have you ever wondered how the machines that power our world actually work From the cars we drive to the machines that shape our industries understanding mechanical systems is crucial in today s technology driven world Whether you re preparing for a mechanical aptitude test looking to enhance your engineering knowledge or simply curious about how mechanical systems function this book provides the essential foundation you need to grasp core mechanical principles and apply them with confidence This guide takes you on a journey through the world of mechanics offering a thorough exploration of the key concepts every engineer technician or aspiring professional needs to understand From simple machines like levers and pulleys to complex systems involving hydraulics pneumatics and thermodynamics this book covers a wide range of topics with easy to understand explanations and real world applications Designed with the learner in mind this book features step by step explanations of mechanical concepts such as force work energy and motion You ll discover how mechanical advantage works how gears and pulleys transfer power and the principles behind heat transfer and fluid mechanics Every section is packed with practical examples and insightful exercises that help you apply theory to practice preparing you for any mechanical aptitude test or real world engineering challenge Whether you re an aspiring mechanical engineer a student preparing for exams or someone interested in DIY mechanical projects this book provides the knowledge you need to succeed The practice exams and problem solving exercises throughout will help you test your understanding and ensure you re fully prepared to tackle mechanical aptitude tests and beyond In addition to fundamental concepts the book dives into the workings of hydraulic and pneumatic systems explores the science behind thermodynamics and explains the mechanics of electrical circuits and power tools You ll learn how these systems are applied in real world industries like automotive construction manufacturing and more With practical examples from the field this book emphasizes how theoretical knowledge translates into tangible hands on applications If you re a beginner or an experienced professional looking to refresh your knowledge this guide will serve as an indispensable resource offering both foundational knowledge and practical insight into the world of mechanical systems Build your skills boost your confidence and unlock the potential to excel in your mechanical endeavors **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. Professional Engineer, 1920 **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
Blast Furnace and Steel Plant, 1930 The Electrical Journal ..., 1895 *Everyday Engineering Magazine*, 1919
Electrical Engineer, 1895 Monad, 1920 *Engineering*, 1894 **Electronic Products Magazine**, 1992 *New York Review of the Telegraph and Telephone and Electrical Journal*, 1908 *The Electrical Engineer*, 1910 Printers' Ink Monthly, 1926 *Electric Circuits and Networks* K. S. Suresh Kumar, K. S. Suresh Kumar, 2008-08-05 *Electric Circuits and Networks* is designed to serve as a textbook for a two semester undergraduate course on basic electric circuits and networks. The book builds on the subject from its basic principles. Spread over seventeen chapters, the book can be taught with varying degree of emphasis on its six subsections based on the course requirement. Written in a student friendly manner, its narrative style places adequate stress on the principles that govern the behaviour of electric circuits and networks.

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