

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	$\frac{kV-A \times 1000}{V}$	$\frac{kV-A \times 1000}{1.732 \times V}$

Electrical Engineering Calculation Formula

Dhivya Nandhini



Electrical Engineering Calculation Formula:

Handbook of Electric Power Calculations H. Wayne Beaty, 2000-10-18 A bestselling calculations handbook that offers electric power engineers and technicians essential step by step procedures for solving a wide array of electric power problems This edition introduces a complete electronic book on CD ROM with over 100 live calculations 90% of the book s calculations Updated to reflect the new National Electric Code advances in transformer and motors and the new system design and operating procedures in the electric utility industry prompted by deregulation

Handbook of Electric Power Calculations Arthur H. Seidman, Haroun Mahrous, Tyler Gregory Hicks, 1984

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

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

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 Manufacturing Management and Logistics *Foundations of Electrical Engineering* K. Simonyi,2016-10-27 Foundations of
 Electrical Engineering Fields Networks Waves describes the general principles of electrical engineering with emphasis on
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 to illustrate the theory and microphysical explanations based on simple models are given This book is divided into five
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 are also considered Subsequent chapters focus on static and steady fields including cylindrically symmetrical fields and
 magnetic fields the laws of network analysis and network synthesis transient phenomena and transmission lines The
 remaining sections deal with electromagnetic waves with emphasis on boundary value problems and further developments in
 electrical engineering This monograph will be of interest to students of electrical engineering and mathematics **The**
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Climate.help.Eu Dieter Mende, 2024-02-06 Thinking at EU national and regional level and acting locally is not a contradiction but rather a dynamic energy policy. If someone tells you that they can explain the opportunities and possibilities of environmental and climate aid within a few minutes then you should be extremely skeptical. This book CLIMATE help EU introduces you to the numerous tangents of climate aid and the energy transition in an exciting way. The many interfaces of the energy transition are not necessarily immediately obvious but the regional and local swarm contributions are of great importance for the common multiple. The renaturation, the sustainable bridge technologies, the climate neutral future technologies, the sector coupling, Power to X of electricity, heat, gas, products, fuel products with hydrogen, the regional and local opportunities are manifold and have already triggered a booming job engine with German technology know-how and German infrastructure know-how in addition to the proof of concept for the energy transition. Hydrogen energy storage is the comprehensive bracket for the sustainable energy transition with environmentally neutral technologies to reduce climate change. This book CLIMATE help EU would like to engage you in an imaginative dialog on the energy transition and has a broad target group interested: citizens, students and teachers, municipal and regional actors, urban planners, politicians, entrepreneurs, actors in the construction industry, in agriculture, and in the energy industry as well as basically all people who keep asking themselves what sustainable action can look like. In the most positive sense, this book CLIMATE help EU actually dispenses with cautionary scenarios and starts directly with the presentation of the promising possibilities in the potential grid of the EU energy transition. The success of the energy transition depends crucially on the start and speed of implementation of defined goals which requires determination and regional identity with the emerging fields of action. Let yourself be inspired and enthused by the numerous opportunities that the energy transition offers. Thinking at EU national and regional level and acting locally is not a contradiction but rather a dynamic energy infrastructure.

Electrical Installation Calculations: Basic A.J. Watkins, 2010-09-08 Designed to provide a step by step guide to successful application of the electrical installation calculations required in day to day electrical engineering practice the Electrical Installation Calculations series has proved an invaluable reference for over forty years for both apprentices and professional electrical installation engineers alike Now in its eighth edition Volume 1 has been fully updated in line with the 17th Edition IEE Wiring Regulations BS 7671 2008 and references the material covered to the Wiring Regs throughout The content meets the requirements of the 2330 Level 2 Certificate in Electrotechnical Technology from City Guilds Essential calculations which may not necessarily feature as part of the requirements of the syllabus are retained for reference by professional electrical installation engineers based in industry or for those students wishing to progress to higher levels of study The book s structure and new design make finding the required calculation easy Key terms are explained in a glossary section and worked examples and exercises are included throughout the text to maximise accessibility of the material for the reader A complete question and answer section is included at the back of the book to enable readers to check their understanding of the calculations presented Also available Electrical Installation Calculations Volume 2 7th edn by Watkins Kitcher the calculations required for advanced electrical installation work and Level 3 study and apprenticeships

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