

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

$$I = V/R, \quad I=PV, \quad I= \sqrt{P/R}$$

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 = 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	$\frac{kVA \times 1000}{V}$	$\frac{kVA \times 1000}{V \times 1.73}$
kIowatts (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
kIowatts	$\frac{V \times L \times PF}{1000}$	$\frac{1.732 \times V \times L \times PF}{1000}$
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	$\frac{kV-A \times 1000}{V}$	$\frac{kV-A \times 1000}{1.732 \times V}$

Basic Electrical Engineering Formulas

Frank Sims



Basic Electrical Engineering Formulas

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

Basic Electrical Formulae Andrew Butler, 2006-08 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

Handbook of Basic Electrical Engineering Formulae Harish C Rai, Shivanshu Rai, 2018-06-30 Handbook of Basic Electrical Engineering Formulae has been designed to cater to the needs of practising engineers as well as undergraduate students of electrical engineering who wish to have a ready reference to formulae equations methods concepts and their mathematical formulations It is a comprehensive practical reference book which will be found extremely useful by all practising engineers irrespective of their individual domains to tackle day to day problems in the field of electrical engineering It contains a plethora of formulae graphs and tables presented in a clear and concise manner

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Formulas with Sample Calculations Mike Holt,2015-08-01 **Mike Holt's Illustrated Guide to Electrical Formulas with Sample Calculations** Charles Michael Holt, Mike Holt Enterprises, Incorporated,2005-01-01 Transmission Line Formulas for Electrical Engineers and Engineering Students Herbert Bristol Dwight,1913 **Basic Electric Circuit Analysis** David E. Johnson,1995 **Fundamentals Of Electric Power Engineering** Isaak D Mayergoysz,Patrick Mcavoy,2014-11-13 Electric power engineering has always been an integral part of electrical engineering education Providing a unique alternative to existing books on the market this text presents a concise and rigorous exposition of the main fundamentals of electric power engineering Contained in a single volume the materials can be used to teach three separate courses electrical machines power systems and power electronics which are in the mainstream of the electrical engineering curriculum of most universities worldwide The book also highlights an in depth review of electric and magnetic circuit theory with emphasis on the topics which are most relevant to electric power engineering Foundations of Electrical Engineering K. Simonyi,2016-06-03 Foundations of Electrical Engineering covers the fundamental ideas and basic laws in electrical engineering This book is organized into five parts encompassing 24 chapters Part I provides an overview of the Maxwell s equation and its significance in electrical engineering Part II deals first with the determination of static and steady electric fields This part also discusses the solution of Laplace s equation boundary value problems the concept of capacity and magnetic field Parts III and IV explore the laws of network analysis and synthesis as well as the basic principles and applications of electromagnetic waves These parts also describe the main features of classical electrodynamics and its application to problems of electrical engineering Part V highlights the combined contributions of Maxwell s equations and the laws of mechanics in the subject field Electrical engineers and electrical engineering teachers and students will find this book invaluable Electrical Engineering Ralf Kories,Heinz Schmidt-Walter,2003-07-09 This is a superb source of quickly accessible information on the whole area of electrical engineering and electronics It serves as a concise and quick reference with self contained chapters comprising all important expressions formulas rules and theorems as well as many examples and applications *Essential Formulae for Electronic and Electrical Engineers* Noel M. Morris,1993-06-02 A pocket reference of essential formulae covering electronic and electrical engineering measurements and control logic telecommunications and mathematics Of value to students at both BTEC National and Higher level as well as at undergraduate level especially those studying electronic and electrical engineering **Fundamental Numerical Methods for Electrical Engineering** Stanislaw Rosloniec,2008-07-17 Stormy development of electronic computation techniques computer systems and software observed during the last decades has made possible automation of data processing in many important human activity areas such as science technology economics and labor organization In a broadly understood technology area this development led to separation of specialized forms of using computers for the design and manufacturing processes that is computer aided design CAD computer aided manufacture CAM In order to show the role of computer in the rest of the two applications

mentioned above let us consider basic stages of the design process for a standard piece of electronic system or equipment formulation of requirements concerning user properties characteristics parameters of the designed equipment elaboration of the initial possibly general electric structure determination of mathematical model of the system on the basis of the adopted electric structure determination of basic responses frequency or time domain of the system on the base of previously established mathematical model repeated modification of the adopted diagram changing its structure or element values in case when it does not satisfy the adopted requirements preparation of design and technological documentation manufacturing of model prototype series according to the prepared documentation testing the prototype under the aspect of its electric properties mechanical durability and sensitivity to environment conditions modification of prototype documentation if necessary and handing over the documentation to series production The most important stages of the process under discussion are illustrated in Fig I 1 xi xii Introduction Fig I

Schaum's Outline of Theory and Problems of Basic Electrical Engineering Jimmie J. Cathey, S. A. Nasar, 1984 This book covers the basic areas of study in the basic core electrical engineering course Solved examples and problems enhance the reader's comprehension of the material It serves as a self study review for professional engineering exams

Mike Holt's Illustrated Guide to Basic Electrical Theory Charles Michael Holt, 2004 Book includes AFCI Alternating current Capacitance Circuit breakers Direct current Efficiency Electrical circuits Electromagnetism Formulas Fuses Generators GFCI Grounding Inductance Kirchoff's Laws Meters Motors Ohm's Law Power factor Skin effect Transformers Utility systems

The Elements of Mechanical and Electrical Engineering International Correspondence Schools, 1899

Essential Formulae for Electronic and Electrical Engineers Noel Malcolm Morris, 1974

Electrical Engineering Heinz O. Häberle, Gregor Häberle, Rudolf Heinzelmann, Hans Walter Jöckel, Rudolf Krall, Thomas Lücke, Klaus Rieger, Bernd Schiemann, Siegfried Schmitt, Klaus Tkotz, 2015

Engineering Formulas Interactive Frank Sims, 1999 With over 450 unit conversions 180 term definitions plus every significant engineering subject with applicable formulas this guide includes properties of materials formulas for geometric figures and formulas for structural sections A CD ROM allows users to quickly perform dynamic calculations and analysis on over 100 of the most popular equations in the book

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1. Understanding the eBook Basic Electrical Engineering Formulas
 - The Rise of Digital Reading Basic Electrical Engineering Formulas
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Electrical Engineering Formulas
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Basic Electrical Engineering Formulas
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Electrical Engineering Formulas
 - Personalized Recommendations
 - Basic Electrical Engineering Formulas User Reviews and Ratings

- Basic Electrical Engineering Formulas and Bestseller Lists
- 5. Accessing Basic Electrical Engineering Formulas Free and Paid eBooks
 - Basic Electrical Engineering Formulas Public Domain eBooks
 - Basic Electrical Engineering Formulas eBook Subscription Services
 - Basic Electrical Engineering Formulas Budget-Friendly Options
- 6. Navigating Basic Electrical Engineering Formulas eBook Formats
 - ePub, PDF, MOBI, and More
 - Basic Electrical Engineering Formulas Compatibility with Devices
 - Basic Electrical Engineering Formulas Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Electrical Engineering Formulas
 - Highlighting and Note-Taking Basic Electrical Engineering Formulas
 - Interactive Elements Basic Electrical Engineering Formulas
- 8. Staying Engaged with Basic Electrical Engineering Formulas
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Electrical Engineering Formulas
- 9. Balancing eBooks and Physical Books Basic Electrical Engineering Formulas
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Electrical Engineering Formulas
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Basic Electrical Engineering Formulas
 - Setting Reading Goals Basic Electrical Engineering Formulas
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Basic Electrical Engineering Formulas
 - Fact-Checking eBook Content of Basic Electrical Engineering Formulas
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
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