

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

All Electrical Engineering Equation And Formulas

Yoshihide Hase



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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 solutions 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, 2018-04-27 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. **Handbook of Industrial Engineering Equations, Formulas, and Calculations** Adedeji B. Badiru, Olufemi A. Omitaomu, 2010-09-17 The first handbook to focus exclusively on industrial engineering calculations with a correlation to applications. Handbook of Industrial Engineering Equations, Formulas, and Calculations contains a general collection of the mathematical equations often used in the practice of industrial engineering. Many books cover individual areas of engineering. *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

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Equations explores the theory methods and applications of differential equations that involve nonlinear terms A range of topics including existence and uniqueness theorems stability analysis and qualitative behavior of solutions The into both ordinary and partial nonlinear differential equations offering techniques for solving complex real world problems in fields such as physics biology and engineering With a focus on analytical and numerical methods it serves as an essential resource for students researchers and professionals seeking to understand and apply nonlinear dynamics Applied Mathematics In Hydraulic Engineering: An Introduction To Nonlinear Differential Equations Kazumasa Mizumura,2011-05-26 Applied Mathematics in Hydraulic Engineering is an excellent teaching guide and reference to treating nonlinear mathematical problems in hydraulic hydrologic and coastal engineering Undergraduates studying civil and coastal engineering as well as analysis and differential equations are started off applying calculus to the treatment of nonlinear partial differential equations before given the chance to practice real life problems related to the fields This textbook is not only a good source of teaching materials for teachers or instructors but is also useful as a comprehensive resource of mathematical tools to researchers *Conference Proceedings. New Perspectives in Science Education* Pixel,2017 Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy,1992

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 *Handbook of Power Systems Engineering with Power Electronics Applications* Yoshihide Hase,2012-11-20 Formerly known as Handbook of Power System Engineering this second edition provides rigorous revisions to the original treatment of systems analysis together with a substantial new four chapter section on power electronics applications Encompassing a whole range of equipment phenomena and analytical approaches this handbook offers a complete overview of power systems and their power electronics applications and presents a thorough examination of the fundamental principles combining theories and technologies that are usually treated in separate specialised fields in a single unified hierarchy Key features of this new edition Updates throughout the entire book with new material covering applications to current topics such as brushless generators speed adjustable pumped storage hydro generation wind generation small hydro generation solar generation DC transmission SVC SVG STATCOM FACTS active filters UPS and advanced railway traffic applications Theories of electrical phenomena ranging from DC and power frequency to lightning

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Steinmetz: Engineer and Socialist Ronald R. Kline, 2019-12-12 When Charles Proteus Steinmetz 1865 1923 died suddenly at the height of his fame his face was as familiar to Americans as that of Babe Ruth Henry Ford or Jack Dempsey Newspapers quoted his views on religion politics he was a Socialist science and future technological wonders All were intrigued by the Horatio Alger tale of the penniless hunchbacked German immigrant who rose to fame as the Wizard of Science chief engineer at General Electric and symbol of the new breed of scientists who daily surpassed the feats of Thomas Alva Edison This intellectual biography follows Steinmetz from his education in Germany to his rise as General Electric s chief consulting engineer Steinmetz obtained nearly 200 patents he made his most important contributions in electrical energy loss or hysteresis the understanding and wider use of alternating current and high voltage power transmission General Electric became Steinmetz s home his identity and a platform from which he stepped onto the wider stage of world affairs As leader of the American Institute of Electrical Engineers Socialist councilman in Schenectady New York and part time professor at Union College Steinmetz attempted to engineer society in the direction of a technocratic utopia by promoting welfare capitalism Lenin s electrification of the Soviet Union and other schemes all with limited success In a life filled with contrasts perhaps even Steinmetz himself a prominent Socialist serving as chief engineer of a major corporation was not always able to separate the myth from the man Steinmetz Engineer and Socialist was the subject of the 2014 PBS documentary film Divine Discontent Well informed by recent studies of similar mythologizing Kline explains both the rise and decline of Steinmetz s popular reputation Robert Friedel Science Kline s explanations are lucid and he offers broader insights about science and technology that will interest all cultural historians Mark Pittenger Journal of American History Steinmetz not only provides the first comprehensive technically sophisticated analysis of Steinmetz s engineering achievements but also carefully examines his influential political and social writings and judiciously dissects the making of the Wizard of Schenectady legend David Sicilia Reviews in American History

DIFFERENTIAL EQUATIONS Dr. Mahadev Biradar, Dr. Gousia Begum, 2024-10-15 Differential Equations Methods Applications offers a comprehensive exploration of differential equations essential tools for modeling dynamic systems in science and engineering The book begins with foundational concepts and definitions progressing through various techniques for solving first order and second order linear differential equations including methods such as Laplace transforms and systems of differential equations

Numerical methods are also highlighted alongside partial differential equations emphasizing their applications in physics and engineering The book concludes with discussions on advanced topics like boundary value problems and Sturm Liouville theory Designed for students and professionals this text combines theory and practical applications equipping readers with the necessary skills to tackle real world problems involving differential equations

Fundamentals of Computational Methods for Engineers Md. Masud Rana,Wei Xu,Youguang Guo,2022-06-01 This textbook bridges the gap between introductory and advanced numerical methods for engineering students The book initially introduces readers to numerical methods before progressing to linear and nonlinear equations Next the book covers the topics of interpolation curve fitting and approximation integration differentiation and differential equations The book concludes with a chapter on advanced mathematical analysis which explains methods for finite difference method of moments and finite elements The book introduces readers to key concepts in engineering such as error analysis algorithms applied mathematics with the goal of giving an understanding of how to solve engineering problems using computational methods Each of the featured topics is explained with sufficient detail while retaining the usual introductory nuance This blend of beginner friendly and applied information along with reference listings makes the textbook useful to students of undergraduate and introductory graduate courses in mathematics and engineering

Eddy Current Approximation of Maxwell Equations Ana Alonso Rodriguez,Alberto Valli,2010-11-22 This book deals with the mathematical analysis and the numerical approximation of eddy current problems in the time harmonic case It takes into account all the most used formulations placing the problem in a rigorous functional framework

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