

# 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

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

### 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	$\frac{kVA \times 1000}{V}$	$\frac{kVA \times 1000}{V \times 1.73}$
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	$\frac{kVA \times 1000}{V}$	$\frac{kVA \times 1000}{1.732 \times V}$

# **Mathematics For Electrical Engineering**

**John R. Fanchi**



# Mathematics For Electrical Engineering

**Mathematics for Electrical Engineering and Computing** Mary P Attenborough, 2003-06-30 Mathematics for Electrical Engineering and Computing embraces many applications of modern mathematics such as Boolean Algebra and Sets and Functions and also teaches both discrete and continuous systems particularly vital for Digital Signal Processing DSP In addition as most modern engineers are required to study software material suitable for Software Engineering set theory predicate and propositional calculus language and graph theory is fully integrated into the book Excessive technical detail and language are avoided recognising that the real requirement for practising engineers is the need to understand the applications of mathematics in everyday engineering contexts Emphasis is given to an appreciation of the fundamental concepts behind the mathematics for problem solving and undertaking critical analysis of results whether using a calculator or a computer The text is backed up by numerous exercises and worked examples throughout firmly rooted in engineering practice ensuring that all mathematical theory introduced is directly relevant to real world engineering The book includes introductions to advanced topics such as Fourier analysis vector calculus and random processes also making this a suitable introductory text for second year undergraduates of electrical electronic and computer engineering undertaking engineering mathematics courses Dr Attenborough is a former Senior Lecturer in the School of Electrical Electronic and Information Engineering at South Bank University She is currently Technical Director of The Webbery Internet development company Co Donegal Ireland Fundamental principles of mathematics introduced and applied in engineering practice reinforced through over 300 examples directly relevant to real world engineering

**Advanced Mathematics for Electrical and Computer Engineers** Randall L. Musselman, 2021-07-30 Advanced Mathematics for Electrical and Computer Engineers by Randall L Musselman applies comprehensive math topics specifically to electrical and computer engineering applications These topics include Discrete math the mathematics of computation Probability and random variables of fundamental to communication theory and solid state devices Ordinary differential equations the mathematics of circuit analysis Laplace transforms that makes the math of circuit analysis much more manageable Fourier series and Fourier transforms the mathematical backbone of signal analysis Partial differential equations the math description of waves and boundary value problems Linear algebra the mathematical language of modern robotics Vector calculus of fundamental to electromagnetism and radio wave propagation This book explores each of these topics their own chapters employing electrical and computer engineering examples as applications

**Mathematics for Electrical Technicians** John Bird, A.J.C. May, 2014-01-21 The definition and solution of engineering problems relies on the ability to represent systems and their behaviour in mathematical terms Mathematics for Electrical Technicians 4 5 provides a simple and practical guide to the fundamental mathematical skills essential to technicians and engineers This second edition has been revised and expanded to cover the BTEC Higher

Mathematics for Engineers module for Electrical and Electronic Engineering Higher National Certificates and Diplomas It will also meet the needs of first and second year undergraduates studying electrical engineering *Mastering Mathematics for Electrical and Electronic Engineering* Noel Malcolm Morris,1994 Introductory Electrical Engineering With Math Explained in Accessible Language Magno Urbano,2019-12-05 Offers an understanding of the theoretical principles in electronic engineering in clear and understandable terms Introductory Electrical Engineering With Math Explained in Accessible Language offers a text that explores the basic concepts and principles of electrical engineering The author a noted expert on the topic explains the underlying mathematics involved in electrical engineering through the use of examples that help with an understanding of the theory The text contains clear explanations of the mathematical theory that is needed to understand every topic presented which will aid students in engineering courses who may lack the necessary basic math knowledge Designed to breakdown complex math concepts into understandable terms the book incorporates several math tricks and knowledge such as matrices determinant and multiplication The author also explains how certain mathematical formulas are derived In addition the text includes tables of integrals and other tables to help for example find resistors and capacitors values The author provides the accessible language examples and images that make the topic accessible and understandable This important book Contains discussion of concepts that go from the basic to the complex always using simplified language Provides examples diagrams and illustrations that work to enhance explanations Explains the mathematical knowledge that is crucial to understanding electrical concepts Contains both solved exercises in line with the explanations Written for students electronic hobbyists and technicians Introductory Electrical Engineering With Math Explained in Accessible Language is a much needed text that is filled with the basics concepts of electrical engineering with the approachable math that aids in an understanding of the topic Mathematical Methods in Electrical Engineering Thomas B. A. Senior,1986-01-31 An undergraduate level textbook concerned with mathematical methods employed in linear systems theory and signal processing Considers complex numbers and Laplace transforms as well as some additional topics such as complex variable theory and Fourier series and transforms Power Systems Engineering and Mathematics U. G. Knight,2017-05-17 Power Systems Engineering and Mathematics investigates the application of mathematical aids particularly the techniques of resource planning to some of the technical economic problems of power systems engineering Topics covered include the process of engineering design and the use of computers in system design and operation power system planning and operation time scales and computation in system operation and load prediction and generation capacity This volume is comprised of 13 chapters and begins by outlining the stages in the synthesis of designs or operating states for engineering systems in general as well as some of the mathematical techniques that can be used The next chapter relates these stages to power system design and operation indicating the principal factors that determine a power system s viable and economic expansion and operation The problem of choosing the standards for transmission and distribution plants is

then considered together with the choice of generation plant mix to meet the total requirement and the sequence of studies and decisions required in system operation The remaining chapters deal with security assessment scheduling of a generating plant and the dispatching of generation This book is intended for engineers and managers in the electricity supply industry advanced students of electrical engineering and workers in other industries with interest in resource allocation problems

**Numerical and Analytical Methods with MATLAB for Electrical Engineers** William Bober, Andrew

Stevens, 2016-04-19 Combining academic and practical approaches to this important topic Numerical and Analytical Methods with MATLAB for Electrical Engineers is the ideal resource for electrical and computer engineering students Based on a previous edition that was geared toward mechanical engineering students this book expands many of the concepts presented in the

**Essential Math Skills for Engineers** Clayton R. Paul, 2011-09-20 Just the math skills you need to excel in the study or practice of engineering Good math skills are indispensable for all engineers regardless of their specialty yet only a relatively small portion of the math that engineering students study in college mathematics courses is used on a frequent basis in the study or practice of engineering That's why Essential Math Skills for Engineers focuses on only these few critically essential math skills that students need in order to advance in their engineering studies and excel in engineering practice Essential Math Skills for Engineers features concise easy to follow explanations that quickly bring readers up to speed on all the essential core math skills used in the daily study and practice of engineering These fundamental and essential skills are logically grouped into categories that make them easy to learn while also promoting their long term retention Among the key areas covered are Algebra geometry trigonometry complex arithmetic and differential and integral calculus Simultaneous linear algebraic equations Linear constant coefficient ordinary differential equations Linear constant coefficient difference equations Linear constant coefficient partial differential equations Fourier series and Fourier transform Laplace transform Mathematics of vectors With the thorough understanding of essential math skills gained from this text readers will have mastered a key component of the knowledge needed to become successful students of engineering In addition this text is highly recommended for practicing engineers who want to refresh their math skills in order to tackle problems in engineering with confidence

**Power Systems Engineering and Mathematics** U. G. Knight, 2014-07-03

International Series of Monographs in Electrical Engineering Volume 3 Power Systems Engineering and Mathematics focuses on the principles methodologies and approaches employed in power systems engineering and mathematics The publication first elaborates on engineering design and mathematical programming power system planning and operation and frequently used analytical techniques Discussions focus on transient and steady state stability power flows and voltage stages in system operation transition from planning to operation stages in system planning and design objectives of system planning application of computers in system design and operation and engineering design The text then tackles standardization studies for network plant generation expansion studies network configuration studies and probability and planning The

manuscript explores the dispatching of generation scheduling of generating plant and load prediction and generation capacity Topics include reliability analysis in network planning risk and uncertainty in investment decisions prediction of demand optimum maintenance programming and security assessment against excessive voltage changes The publication is a valuable source of data for engineers and researchers interested in power systems engineering and mathematics

**Applications of Mathematics in Electrical Engineering** William J. Jameson, 199? 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 *Engineering Mathematics* Charles Proteus Steinmetz, 2015-07-23 Excerpt from Engineering Mathematics A Series of Lectures Delivered at Union College The following work embodies the subject matter of a lecture course which I have given to the junior and senior electrical engineering students of Union University for a number of years It is generally conceded that a fair knowledge of mathematics is necessary to the engineer and especially the electrical engineer For the latter however some branches of mathematics are of fundamental importance as the algebra of the general number the exponential and trigonometric series etc which are seldom adequately treated and often not taught at all in the usual text books of mathematics or in the college course of analytic geometry and calculus given to the engineering students and therefore electrical engineers often possess little knowledge of these subjects As the result an electrical engineer even if he possess a fair knowledge of mathematics may often find difficulty in dealing with problems through lack of familiarity with these branches of mathematics which have become of importance in electrical engineering and may also find difficulty in looking up information on these subjects In the same way the college student when beginning the study of electrical engineering theory after completing his general course of mathematics frequently finds himself sadly deficient in the knowledge of mathematical subjects of which a complete familiarity is required for effective understanding of electrical engineering theory It was this experience which led me some years ago to start the course of lectures which is reproduced in the following pages I have thus attempted to bring together and discuss explicitly with numerous practical applications all those branches of mathematics which are of special importance to the electrical engineer About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works **Mathematical and Numerical Modelling in**

**Electrical Engineering Theory and Applications** Michal Krízek, Pekka Neittaanmäki, 2013-03-09 Mathematical modeling plays an essential role in science and engineering. Costly and time-consuming experiments, if they can be done at all, are replaced by computational analysis. In industry, commercial codes are widely used. They are flexible and can be adjusted for solving specific problems of interest. Solving large problems with tens or hundreds of thousands of unknowns becomes routine. The aim of analysis is to predict the behavior of the engineering and physical reality, usually within the constraints of cost and time. Today, human cost and time are more important than computer cost. This trend will continue in the future. Agreement between computational results and reality is related to two factors: namely, mathematical formulation of the problems and the accuracy of the numerical solution. The accuracy has to be understood in the context of the aim of the analysis. A small error in an inappropriate norm does not necessarily mean that the computed results are usable for practical purposes. **Science and Mathematics for Engineering** John Bird, 2019-10-08 A practical introduction to the engineering science and mathematics required for engineering study and practice. Science and Mathematics for Engineering is an introductory textbook that assumes no prior background in engineering. This new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their examinations and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications. A new chapter covers present and future ways of generating electricity, an important topic. John Bird focuses upon engineering examples, enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles. This book includes over 580 worked examples, 1300 further problems, 425 multiple-choice questions with answers, and contains sections covering the mathematics that students will require within their engineering studies: mechanical applications, electrical applications, and engineering systems. This book is supported by a companion website of materials that can be found at [www.routledge.com/bird](http://www.routledge.com/bird). This resource includes fully worked solutions of all the further problems for students to access, and the full solutions and marking schemes for the revision tests found within the book for instructor use. In addition, all 447 illustrations will be available for downloading by lecturers. **The Calculus Tutoring Book** Carol Ash, William J. Jameson, Robert B. Ash, 1991-03-01 Based on real-world examples, this classic self-study course gives you the fundamental math techniques for solving problems in circuit analysis, voltage and current requirements, filter design, CAD, and many other areas. Course includes study guide, 350pp diskette of computational algorithms, textbook. **The Calculus Tutoring Book** by Carol and Robert Ash, IEEE Press, 1993, final exam, 8 Continuing Education Units (CEUs) and a Certificate of Achievement upon successful completion. **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. **Math Refresher for Scientists and Engineers**

John R. Fanchi, 2006-06-12 Expanded coverage of essential math including integral equations calculus of variations tensor analysis and special integrals Math Refresher for Scientists and Engineers Third Edition is specifically designed as a self study guide to help busy professionals and students in science and engineering quickly refresh and improve the math skills needed to perform their jobs and advance their careers The book focuses on practical applications and exercises that readers are likely to face in their professional environments All the basic math skills needed to manage contemporary technology problems are addressed and presented in a clear lucid style that readers familiar with previous editions have come to appreciate and value The book begins with basic concepts in college algebra and trigonometry and then moves on to explore more advanced concepts in calculus linear algebra including matrices differential equations probability and statistics This Third Edition has been greatly expanded to reflect the needs of today's professionals New material includes A chapter on integral equations A chapter on calculus of variations A chapter on tensor analysis A section on time series A section on partial fractions Many new exercises and solutions Collectively the chapters teach most of the basic math skills needed by scientists and engineers The wide range of topics covered in one title is unique All chapters provide a review of important principles and methods Examples exercises and applications are used liberally throughout to engage the readers and assist them in applying their new math skills to actual problems Solutions to exercises are provided in an appendix Whether to brush up on professional skills or prepare for exams readers will find this self study guide enables them to quickly master the math they need It can additionally be used as a textbook for advanced level undergraduates in physics and engineering

*Electrical Engineering Mathematics* Samir Manoli, 2013-07-30 Both mathematics and basic electrical engineering go hand in hand when theory and analysis of topics in basic electrical engineering subjects are discussed This text book introduces the application of a wide range of applied mathematics ranges from a very simple mathematical operations like algebraic equations or complex numbers to a much more sophisticated mathematical theories like Gauss's theorem Stokes's theorem and Maxwell's equations It is impossible to compile in one book all the mathematical operations involved in the development of electrical engineering theories However we have attempted to cover a wide variety of applied mathematics and the associated basic classical electrical engineering topic This book is not a text book for mathematics and is not a text book for basic electrical engineering It is a text book offering the mathematical tools and theories needed to discuss several classical electrical engineering subjects Undergraduate and graduate students can utilize this book to help them comprehend the basics in classical electrical engineering topics The book contains several examples on each theory discussed Furthermore the appendix is offering additional examples covering most of the theories discussed The reader should have a background in calculus differential equations complex numbers geometry integration differentiation and matrices etc

Elementary Mathematical and Computational Tools for Electrical and Computer Engineers Using MATLAB Jamal T. Manassah, 2017-12-19 Engineers around the world depend on MATLAB for its power usability and outstanding graphics



capabilities Yet too often engineering students are either left on their own to acquire the background they need to use MATLAB or they must learn the program concurrently within an advanced course Both of these options delay students from solving realistic design problems especially when they do not have a text focused on applications relevant to their field and written at the appropriate level of mathematics Ideal for use as a short course textbook and for self study Elementary Mathematical and Computational Tools for Electrical and Computer Engineers Using MATLAB fills that gap Accessible after just one semester of calculus it introduces the many practical analytical and numerical tools that are essential to success both in future studies and in professional life Sharply focused on the needs of the electrical and computer engineering communities the text provides a wealth of relevant exercises and design problems Changes in MATLAB s version 6 0 are included in a special addendum The lack of skills in fundamental quantitative tools can seriously impede progress in one s engineering studies or career By working through this text either in a lecture lab environment or by themselves readers will not only begin mastering MATLAB but they will also hone their analytical and computational skills to a level that will help them to enjoy and succeed in subsequent electrical and computer engineering pursuits

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