

# 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 kW-A is known                                                                    | $\frac{kV-A \times 1000}{V}$                                   | $\frac{kV-A \times 1000}{1.732 \times V}$                                   |

# All Basic Electrical Engineering Formulas

**D. P. KOTHARI, I. J. NAGRATH**



## **All Basic Electrical Engineering Formulas:**

**BASIC ELECTRICAL ENGINEERING** SURYAMANI MISHRA, Electrical engineering plays a significant role in our everyday lives affecting numerous technologies and systems Key Areas of Electrical Engineering 1 Power Systems This area deals with the generation transmission and distribution of electricity Engineers in this field work on ensuring reliable power supply and the integration of renewable energy sources like solar and wind 2 Electronics This involves the study and design of electronic circuits and devices which can include everything from semiconductors to integrated circuits It has applications in consumer electronics telecommunications and more 3 Control Systems This area focuses on designing systems that maintain desired outputs despite changes in external conditions Applications range from industrial automation to robotics and aerospace 4 Telecommunications This subfield involves the transmission of information over distances for communication purposes It encompasses everything from mobile phone networks to satellite communication 5 Signal Processing This involves analysing and manipulating signals predominantly electrical signals to improve transmission and reception quality It is essential in audio video and data communications 6 Instrumentation This area focuses on the design of devices and systems that measure physical quantities like temperature pressure or flow and convert these measurements into signals for monitoring and control

### **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 Engineering* J. P. Tewari, 2003 This Book Is Written For Use As A Textbook For The Engineering Students Of All Disciplines At The First Year Level Of The B Tech Programme The Text Material Will Also Be Useful For Electrical Engineering Students At Their Second Year And Third Year Levels It Contains Four Parts Namely Electrical Circuit Theory Electromagnetism And Electrical Machines Electrical Measuring Instruments And Lastly The Introduction To Power Systems This Book Also Contains A Good Number Of Solved And Unsolved Numerical Problems At The End Of Each Chapter References Are Included For Those Interested In Pursuing A Detailed Study

### **Basic Electrical**

**Engineering** SINGH, S. N.,2010-10-30 This book presents comprehensive coverage of all the basic concepts in electrical engineering It is designed for undergraduate students of almost all branches of engineering for an introductory course in essentials of electrical engineering This book explains in detail the properties of different electric circuit elements such as resistors inductors and capacitors The fundamental concepts of dc circuit laws such as Kirchhoff s current and voltage laws and various network theorems such as Thevenin s theorem Norton s theorem superposition theorem maximum power transfer theorem reciprocity theorem and Millman s theorem are thoroughly discussed The book also presents the analysis of ac circuits and discusses transient analysis due to switch operations in ac and dc circuits as well as analysis of three phase circuits It describes series and parallel RLC circuits magnetic circuits and the working principle of different kinds of transformers In addition the book explains the principle of energy conversion the operating characteristics of dc machines three phase induction machines and synchronous machines as well as single phase motors Finally the book includes a discussion on technologies of electric power generation along with the different types of energy sources Key Features Includes numerous solved examples and illustrations for sound conceptual understanding Provides well graded chapter end problems to develop the problem solving capability of the students Supplemented with three appendices addressing matrix algebra trigonometric identities and Laplace transforms of commonly used functions to help students understand the mathematical concepts required for the study of electrical engineering      *Basic Electrical Engineering* K. N. Srinivas,2013-12-30 The aim of this book is to provide a consolidated text for the first year B E Computer Science and Engineering students and B Tech Information Technology students of Anna University The syllabus has been thoroughly revised for the non semester yearly pattern by the University The book made up of five chapters systematically covers the five units of the syllabus It begins with a detailed discussion on the fundamentals of electric circuits DC circuits AC circuits 3 phase circuits resonance and the network theorems Lecture type presentation of the rudiments of the fundamentals in conjunction with hundreds of solved examples is the strength of this book Magnetic circuits and various magnetic elements and their properties with number of illustrations are presented DC machines and transformers are further dealt with Equivalent circuits of machines supported with the respective photographs will ease the reader to understand the concepts of machines much better Synchronous machines and asynchronous machines and fundamentals of control systems with various practical examples and relevant worked illustrations conclude this book A large number of numerical illustrations and diagrammatic representations make this book valuable for students and teachers      **Basic Electrical Engineering** Mehta V.K. & Mehta Rohit,2008 For close to 30 years Basic Electrical Engineering has been the go to text for students of Electrical Engineering Emphasis on concepts and clear mathematical derivations simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject Divided into 17 chapters the book covers all the major topics such as DC Circuits Units of Work Power and Energy Magnetic Circuits fundamentals of

AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand

**BASIC ELECTRICAL ENGINEERING** Dr. K. A. Navas, T. A. Suhail, 2018-08-01 This book is prepared as per the syllabus of Dr A P J Abdul Kalam Technical University Uttar Pradesh for first year B Tech Engineering course using the reference books given in the course syllabus Authors have tried to elucidate the topics such a way that even a mediocre student can assimilate them Many solved problems sample question papers and exercise given in every section will provide a thorough understanding of topics

**A Textbook of Electrical Technology - Volume I (Basic Electrical Engineering)** BL Theraja, 2005 The primary objective of vol I of A Text Book of Electrical Technology is to provide a comprehensive treatment of topics in Basic Electrical Engineering both for electrical as well as nonelectrical students pursuing their studies in civil mechanical mining textile chemical industrial environmental aerospace electronic and computer engineering both at the Degree and diploma level Based on the suggestions received from our esteemed readers both from India and abroad the scope of the book has been enlarged according to their requirements Almost half the solved examples have been deleted and replaced by latest examination papers set up to 1994 in different engineering colleges and technical institutions in India and abroad

**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 Basic Electrical Engineering R. K. Rajput, 2009-02 **Basic Electrical Engineering** Uday A.

Bakshi, 2020-11-01 The book is written for an undergraduate course on the Basic Electrical Engineering It provides comprehensive explanation of theory and practice of electrical engineering It elaborates various aspects of d c and a c circuit analysis magnetic circuits measuring instruments single phase transformers and various electrical machines The book starts with the concepts of electric charge current and potential difference It explains Kirchhoff's laws star delta transformation mesh analysis and node analysis It also covers the application of various network theorems in analyzing d c circuits The book incorporates detailed discussion of steady state analysis of single phase series and parallel a c circuits along with the resonance The book also explains the three phase balanced circuits three phase power measurement and power factor improvement The simple techniques and stepwise methods used to explain the phasor diagrams is the feature of the book The book teaches the theory of various electrical measuring instruments The book also covers the concept of earthing and electrical safety which is most important while dealing with the electrical equipment's The book also includes the discussion of magnetic circuits self and mutual inductances and magnetic hysteresis The book further explains the details of single phase transformers and various electrical machines such as d c machines three phase and single phase induction motors and synchronous machines The brief introduction of power system is also incorporated in the book The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the basic electrical engineering in the students The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting **Basic Electrical Engineering** Dr. Ramana Pilla, Dr. M Surya Kalavathi & Dr. G T Chandra Sekhar, 2022-01-03 This book is designed based on revised syllabus of JNTU Hyderabad AICTE model curriculum for under graduate B Tech BE students of all branches those who study Basic

Electrical Engineering as one of the subject in their curriculum The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits Network Theorems Resonance Three phase circuits Transformers Electrical Machines and Electrical Installation **Basic Electrical Engineering Semester-II (RTM) Nagpur University** B L Theraja, Kiran Manish Kimmatkar, Umesh E. Hiwase & A K Theraja, Basic Electrical Engineering is written exclusively for B Tech Second semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University Nagpur RTMNU Nagpur Each of the important topics that help the student in learning the principles of Electrical Engineering more effectively have been included BASIC ELECTRICAL ENGINEERING NARAYAN CHANGDER,2024-05-16 If you need a free PDF practice set of this book for your studies feel free to reach out to me at cbsenet4u gmail com and I ll send you a copy THE BASIC ELECTRICAL ENGINEERING MCQ MULTIPLE CHOICE QUESTIONS SERVES AS A VALUABLE RESOURCE FOR INDIVIDUALS AIMING TO DEEPEN THEIR UNDERSTANDING OF VARIOUS COMPETITIVE EXAMS CLASS TESTS QUIZ COMPETITIONS AND SIMILAR ASSESSMENTS WITH ITS EXTENSIVE COLLECTION OF MCQS THIS BOOK EMPOWERS YOU TO ASSESS YOUR GRASP OF THE SUBJECT MATTER AND YOUR PROFICIENCY LEVEL BY ENGAGING WITH THESE MULTIPLE CHOICE QUESTIONS YOU CAN IMPROVE YOUR KNOWLEDGE OF THE SUBJECT IDENTIFY AREAS FOR IMPROVEMENT AND LAY A SOLID FOUNDATION DIVE INTO THE BASIC ELECTRICAL ENGINEERING MCQ TO EXPAND YOUR BASIC ELECTRICAL ENGINEERING KNOWLEDGE AND EXCEL IN QUIZ COMPETITIONS ACADEMIC STUDIES OR PROFESSIONAL ENDEAVORS THE ANSWERS TO THE QUESTIONS ARE PROVIDED AT THE END OF EACH PAGE MAKING IT EASY FOR PARTICIPANTS TO VERIFY THEIR ANSWERS AND PREPARE EFFECTIVELY Machine Learning for Neuroscience Chuck Easttom,2023-07-31 This book addresses the growing need for machine learning and data mining in neuroscience The book offers a basic overview of the neuroscience machine learning and the required math and programming necessary to develop reliable working models The material is presented in a easy to follow user friendly manner and is replete with fully working machine learning code Machine Learning for Neuroscience A Systematic Approach tackles the needs of neuroscience researchers and practitioners that have very little training relevant to machine learning The first section of the book provides an overview of necessary topics in order to delve into machine learning including basic linear algebra and Python programming The second section provides an overview of neuroscience and is directed to the computer science oriented readers The section covers neuroanatomy and physiology cellular neuroscience neurological disorders and computational neuroscience The third section of the book then delves into how to apply machine learning and data mining to neuroscience and provides coverage of artificial neural networks ANN clustering and anomaly detection The book contains fully working code examples with downloadable working code It also contains lab assignments and quizzes making it appropriate for use as a textbook The primary audience is neuroscience researchers who need to delve into machine learning programmers assigned neuroscience

related machine learning projects and students studying methods in computational neuroscience

**THEORY AND PROBLEMS OF BASIC ELECTRICAL ENGINEERING** D. P. KOTHARI, I. J. NAGRATH, 1998-01-01 For the first time in India we have a comprehensive introductory book on Basic Electrical Engineering that caters to undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE GATE and graduate IETE The book provides a lucid yet exhaustive exposition of the fundamental concepts techniques and devices in basic electrical engineering through a series of carefully crafted solved examples multiple choice objective type questions and review questions The book covers in general three major areas electric circuit theory electric machines and measurement and instrumentation systems

**Basic Electrical and Electronics Engineering-II (ASTU, Assam)** Jyoti Prasad Bandyopadhyay, Books in this series have been specially designed to meet the requirements of a large spectrum of engineering students of ASTU those who find learning concepts difficult and want to study through solved examples and those who wish to study the traditional way A large number of solved examples are the backbone of this series and are aimed at instilling confidence in the students to take on the examinations Basic Electrical and Electronics Engineering II has been specially designed to serve as a textbook for an introductory course on basic electrical and electronics engineering It meets the requirements of a large spectrum of 2nd semester undergraduate students of all branches of engineering The book has been developed with an eye on the interpretation of concepts and application of theories The language has been kept very simple so that students are able to assimilate the subject matter with ease A large number of solved examples have also been provided for self assessment

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born about six months after the death of his father his great aunt miss betsy was present in the house when

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