

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	$\frac{kVA}{V}$	$\frac{kVA \times 1000}{V \times 1.73}$
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	$\frac{kV-A \times 1000}{V}$	$\frac{kV-A \times 1000}{1.732 \times V}$

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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 S. Sivanagaraju, P. V. Prasad, 2012 **Basic Electrical Engineering** V. K. Mehta, 1991 **Basic Electrical and Electronics Engineering** S. Shrivastava, 2018-10-30 Designed to serve as a core textbook for undergraduate first year engineering students It presents the topics of basic electrical and electronics engineering in simple easy to understand language Fundamentals are explained with suitable examples Core concepts are presented through examination oriented solved problems Practice problems are included at the end of each chapter for self evaluation Answers to practice problems are included with detailed explanations Includes elaborate illustration and circuit diagrams **BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS** K. Shashidhar, 2013-05-31 **BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS** is intended to be used as a text book for I Semester Diploma in Electronics and Communication Engineering This book is designed for comprehensively covering all topics relevant to the subject Each and every topic has been explained in a very simple language as per the syllabus prescribed by the Board of Technical Education Karnataka This book is divided into eight chapters Chapter 1 Basics of Electricity Chapter 2 Electrostatics Chapter 3 Electromagnetic Induction Chapter 4 AC Fundamentals Chapter 5 AC Circuits Chapter 6 Transformers Chapter 7 Batteries Relays and Motors Chapter 8 Passive Components The text provides detailed explanations and uses numerous easy to follow examples accompanied by diagrams and step by step solutions Illustrative problems are presented in terms of commonly used voltages and current ratings To enhance the utility of the book important points and review questions objective and descriptive type have been included at the end of each chapter Model question papers have been provided to help students prepare better for the semester examinations Multiple choice questions along with answers have been given towards the end of the book for the benefit of students taking up competitive tests It is hoped that this book will be of immense use to teachers and students of Polytechnics Suggestions for improvement in the future editions of this book will be appreciated I wish to express my gratitude to MEI Polytechnic Bangalore for providing me an opportunity to bring out this text book I am grateful to Sri Nitin S Shah M s Sapna Book House Bangalore for publishing this book I am thankful to M s Datalink Bangalore for meticulous processing of the manuscript of this book Basic Electrical Engineering Ritu Sahdev, Although a number of books written by various authors on the subject are available in the market However the author feels that this book will facilitate the students not only to prepare for the regular University examinations The book is also quite suitable for the professionals

since many live examples have been incorporated The book has the following exclusive features i The Learning objectives of each chapter have been incorporated in the beginning to develop curiosity among the students ii Practice exercise have been added in all the chapters after suitable intervals to impart necessary practice iii At the end of each chapter its summary highlights are given This will enable the students to revise the subject matter quickly iv A number of short answer and test questions have been given at the end of each chapter While answering these questions the readers will have to think deep into the subject matter This will improve their analytical approach Consequently the students readers will be in position to respond in a better way while appearing before the selection board or to deal with practical problems v A sufficient number of objective type questions MCQ have been given at the end of each chapter These questions will help the students to perform better in the competitive examinations vi The subject matter is treated in a simple and lucid manner so that an average student can understand the subject easily Although typical mathematical expressions are avoided but simple mathematical relations are used for better explanation and understanding

Basic Electrical and Electronics Engineering
R.K. Rajput,2007 **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

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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 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

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fundamental concepts and principles behind of Transformer Three Phase Circuits and Electrical Generator and Motor are explained in a simple easy to understand manner Each Chapter of book gives the design of Electrical Engineering that can be done by students of B E B Tech M Tech level Salient Features Detailed coverage of AC and DC Circuit Analysis Network Reduction and Network Theorems and Resonance and Coupled Circuits Comprehensive Coverage of Transformer Three Phase Circuits and Electrical Generator and Motor Detailed coverage of Switchgear Protection Earthing System Electricity Usage Monitors Power Factor Correction and Basics of Battery Its applications Each chapter contains a large number of solved example or objective type s problem which will help the students in problem solving and designing of Electrical Engineering Clear perception of the various problems with a large number of neat well drawn and illustrative diagrams Simple Language easy to understand manner I do hope that the text book in the present form will meet the requirement of the students doing graduation in Electronics Communication Engineering Computer Science Engineering Information Technology Electronics Instrumentation Engineering and Electrical Electronics Engineering I will appreciate any suggestions from students and faculty members alike so that we can strive to make the text book more useful in the edition to come

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