

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

Lingjun Ying



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

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

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 upto 1994 in different engineering collage 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

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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 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 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

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web dry center İstanbul genelinde adrese servis kuru temizleme hizmeti vermektedir detaylar için adrese servis sayfasını ziyaret edebilirsiniz İstanbul dahil türkiye genelinde franchise sistemiyle bayilik veren dry center ile ilgili ayrıntılı

Şubeler dry service - Feb 14 2023

web dry service İstanbul anadolu yakasında 12 şubesi yanında çamaşırhane ve halı yıkama fabrikasıyla müşterilerine kuru temizleme ütuleme stor perde yıkama fon perde temizleme halı yıkama terzi ve lostra hizmetlerini sunmaktadır online siparişle beykoz ataşehir kartal kadıköy Üsküdar Ümraniye maltepe Çekmeköy

dry İstanbul kuru temizleme fiyatlar - Apr 16 2023

web dry İstanbul daki avantajınızı köpürten kart köpük kart ile köpük kart ayrıcalıkları ile kuru temizleme yıkama ütuleme ve mite temizliği hizmetlerinden faydalanabilirsiniz Üyelik sistemi sayesinde ekonomik ve uygun ödeme planları ile hizmet alabilirsiniz

halı yıkama İstanbul dry center halı yıkama - Nov 11 2022

web dry center fiyat listesi nde halı yıkama yerinde halı yıkama ve koltuk yıkama hizmetlerinin fiyatlarını bulabilirsiniz aynı listede overlok ve saçak tamiri gibi halı bakım hizmet fiyatları da yer almaktadır

dry center meydan İstanbul kuru temizleme - Dec 12 2022

web dry center meydan İstanbul kuru temizleme fatih sultan mehmet mah balkan cad no 64 meydan İstanbul alışveriş merkezi meydanistanbulavm com mağaza no 44 Ümraniye İstanbul 0216 313 27 17 hizmetler kuru temizleme yıkama Ütuleme Çalışma saatleri hafta içi haftasonu 10 00 22 00

tureng dry türkçe İngilizce sözlük - Jul 19 2023

web dry as dust expr aşırı kuru İngilizce türkçe online sözlük tureng kelime ve terimleri çevir ve farklı aksanlarda sesli dinleme dry kurulamak dry goods manifatura dry kurumak dry quart ne demek

dry service online kuru temizleme ve halı yıkama hizmetleri - Jun 18 2023

web dry service profesyonel kuru temizleme hizmetleri kuru temizleme halı yıkama perde yıkama Ütuleme ev tekstili yıkama terzi lostra leke Çıkarma kurumsal hizmet online kuru temizleme ve halı yıkama hizmetleri İstanbul

dry center kuru temizleme halı yıkama İstanbul - Aug 20 2023

web dry center kuru temizleme için teknik olarak gelişmiş ve bilgisayar kontrollü makineler kullanır kuru temizleme kullanılan özel çözücüler sayesinde ıslak yıkamadaki gibi kumaş dokularını liflerini yıpratmaz