

Basic Electrical Engineering formula Sheet

Resistors in Series

$$R_{\text{eq}} = R_1 + R_2 + R_3 + \dots + R_n$$

Resistors in Parallel

$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots + \frac{1}{R_n}$$

Kirchhoff's Voltage Law

Sum of all voltages in a loop is equal to zero.

$$\sum \text{Voltages} = 0$$

Kirchhoff's Current Law

Sum of all currents entering and leaving a node is equal to zero.

Inductive Reactance

$$X_L = 2\pi f L$$

X_L = Inductive reactance

f = Frequency in hertz

L = Inductance in henry

Capacitive Reactance

$$X_C = \frac{1}{2\pi f C}$$

X_C = Capacitive reactance

f = Frequency

C = Capacitance in Farads

Ohm's Law for AC

$$E = IZ$$

$$I = \frac{E}{Z}$$

$$Z = \frac{E}{I}$$

E = Voltage

I = Current in Ampere

Z = Impedance in ohms

Impedance in Series

$$Z_{\text{series}} = Z_1 + Z_2 + Z_3 + \dots + Z_n$$

Impedance in Parallel

$$Z_{\text{parallel}} = \frac{1}{\frac{1}{Z_1} + \frac{1}{Z_2} + \frac{1}{Z_3} + \dots + \frac{1}{Z_n}}$$

Decibel Formulas

$$A_V(\text{dB}) = 20 \log A_V(\text{ratio})$$

$$A_I(\text{dB}) = 20 \log A_I(\text{ratio})$$

$$A_P(\text{dB}) = 10 \log A_P(\text{ratio})$$

$$A_V(\text{ratio}) = 10^{\frac{A_V(\text{dB})}{20}}$$

$$A_I(\text{ratio}) = 10^{\frac{A_I(\text{dB})}{20}}$$

$$A_P(\text{ratio}) = 10^{\frac{A_P(\text{dB})}{10}}$$

True Power (P)

$$P = I^2 R$$

$$P = \frac{E^2}{R}$$

Measure in watts

Reactive Power (Q)

$$Q = I^2 X$$

$$Q = \frac{E^2}{X}$$

Measure in Volt-Amps-Reactive

Apparent Power (S)

$$S = I^2 Z$$

$$S = \frac{E^2}{Z}$$

Measure in Volt-Amps

Pdf Electrical Engineering Formulas

Alberto Leon-Garcia

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Pocket Book of Electrical Engineering Formulas Richard C. Dorf, Ronald J. Tallarida, 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.

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Electric Distribution Systems Abdelhay A. Sallam, Om P. Malik, 2011-04-18 This book provides a comprehensive treatment of electric distribution systems. Few books cover specific topics in more depth and there is hardly any book that deals with the key topics of interest to distribution system engineers. The book introduces these topics from two points of view: 1. The practical point of view by providing practical examples and the problems which can be solved. 2. The academic point of view where the analysis and various techniques used for distribution system planning are explained. The most outstanding feature of this book is a combination of practical and academic explanation of its contents. Another outstanding feature is a collection of the traditional and current topics of distribution systems condensed into one book. The reader will gain an understanding of distribution systems from both practical and academic aspects, will be able to outline and design a distribution system for specific loads, cities, zones, etc. Readers will also be able to recognize the problems which may occur during the operation of distribution systems and be able to propose solutions for these problems.

Robot Intelligence Technology and Applications 2012 Jong-Hwan Kim, Eric T. Matson, Hyun Myung, Peter Xu, 2013-04-03 In

recent years robots have been built based on cognitive architecture which has been developed to model human cognitive ability The cognitive architecture can be a basis for intelligence technology to generate robot intelligence In this edited book the robot intelligence is classified into six categories cognitive intelligence social intelligence behavioral intelligence ambient intelligence collective intelligence and genetic intelligence This classification categorizes the intelligence of robots based on the different aspects of awareness and the ability to act deliberately as a result of such awareness This book aims at serving researchers and practitioners with a timely dissemination of the recent progress on robot intelligence technology and its applications based on a collection of papers presented at the 1st International Conference on Robot Intelligence Technology and Applications RiTA held in Gwangju Korea December 16 18 2012 For a better readability this edition has the total 101 papers grouped into 3 chapters Chapter I Cognitive Intelligence Social Intelligence and Behavioral Intelligence Chapter II Ambient Intelligence Collective Intelligence and Genetic Intelligence Chapter III Intelligent Robot Technologies and Applications

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Schools,1899 **Principles of Electrical Engineering** William Henry Timbie,Vannevar Bush,1930 Journal of the Institution of Engineers (India). Institution of Engineers (India). Chemical Engineering Division,Institution of Engineers (India). Electrical Engineering Division,1998

Probability, Statistics, and Random Processes for Electrical Engineering Alberto Leon-Garcia,2008 While helping students to develop their problem solving skills the author motivates students with practical applications from various areas of ECE that demonstrate the relevance of probability theory to engineering practice

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Electronic Engineering ,1978 A *Most Elegant Equation* David Stipp,2017-11-07 An award winning science writer introduces us to mathematics using the extraordinary equation that unites five of mathematics most important numbers Bertrand Russell wrote that mathematics can exalt as surely as poetry This is especially true of one equation $ei \pi + 1 = 0$ the brainchild of Leonhard Euler the Mozart of

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