

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

Chandresh Agrawal, Nandini Books

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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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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

The Elements of Mechanical and Electrical Engineering: Steam and steam engines. Strength of materials. Applied mechanics. Steam boilers. With practical questions and examples International Correspondence 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

25 Problems for STEM Education Valery Ochkov,2020-01-31 25 Problems for STEM Education introduces a new and emerging course for undergraduate STEM programs called Physical Mathematical Informatics This course corresponds with the new direction in education called STE A M Science Technology Engineering Art and Mathematics The book focuses on undergraduate university students and high school students as well as the teachers of mathematics physics chemistry and other disciplines such as the humanities This book is suitable for readers who have a basic understanding of mathematics and math software Features Contains 32 interesting problems studies and new and unique methods of solving these physical and mathematical problems using a computer as well as new methods of teaching mathematics and physics Suitable for students in advanced high school courses and undergraduates as well as for students studying Mathematical Education at the Master s or PhD level One of the only books that attempts to bring together ST E AM techniques computational mathematics and informatics in a single unified format

Electronic Engineering ,1978

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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 $e^{i\pi} + 1 = 0$ the brainchild of Leonhard Euler the Mozart of

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