

Basic Electrical Engineering formula Sheet

Resistors in Series

$$R_{eq} = R_1 + R_2 + R_3$$

Resistors in Parallel

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

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

$$X_L = 2\pi fL$$

X_L = Inductive reactance

f = Frequency in hertz

L = Inductance in henry

Capacitive Reactance

$$X_C = \frac{1}{2\pi fC}$$

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

$$Z_{series} = Z_1 + Z_2 + Z_3$$

Impedance in Parallel

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

Decibel Formulas

$$A_V(dB) = 20 \log A_V(ratio)$$

$$A_I(dB) = 20 \log A_I(ratio)$$

$$A_P(dB) = 10 \log A_P(ratio)$$

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

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

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

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

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K. Simonyi



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A Textbook of Engineering Physics M N Avadhanulu, 2008 A Textbook of Engineering Physics is written with two distinct objectives to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

Engineering Physics K.V.S. Ganeswara Rao, 2008 Written according to syllabus of Viswesvaraya Technological University Belgaum Karnataka **Smart Sensors Measurements and Instrumentation** Santhosh K V, K. Guruprasad Rao, 2021-05-10

This book presents the select proceedings of Control Instrumentation and System Conference CISCON 2020 held at Manipal Institute of Technology MAHE Manipal. It examines a wide spectrum covering the latest trends in the fields of instrumentation, sensors and systems and industrial automation and control. The topics covered include image and signal processing, robotics, renewable energy, power systems and power drives, performance attributes of MEMS, multi-sensor data fusion, machine learning, optimization techniques, process control, safety monitoring, safety-critical control, supervisory control, system modeling and virtual instrumentation. The book is a valuable reference for researchers and professionals interested in sensors, adaptive control, automation and control and allied fields. Transactions of the American Institute of Electrical Engineers

American Institute of Electrical Engineers, 1955 **Electromagnetic Field Theory** Uday A. Bakshi, Late Ajay V. Bakshi, 2020-11-01 The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence, the book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law, divergence and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential and potential difference and the energy in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use in a variety of practical applications. The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stokes's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws, time-varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good conductors. 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 The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students Each chapter is well supported with necessary illustrations and self explanatory diagrams The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering Nicolas Gascoin,E. Balasubramanian,2020-09-26 This book gathers the best articles presented by researchers and industrial experts at the International Conference on Innovative Design Analysis and Development Practices in Aerospace and Automotive Engineering I DAD 2020 The papers discuss new design concepts and analysis and manufacturing technologies with a focus on achieving improved performance by downsizing improving the strength to weight ratio fuel efficiency and operational capability at room and elevated temperatures reducing wear and tear addressing NVH aspects while balancing the challenges of Euro VI Bharat Stage VI emission norms greenhouse effects and recyclable materials Presenting innovative methods this book is a valuable reference resource for professionals at educational and research organizations as well as in industry encouraging them to pursue challenging projects of mutual interest 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 (As Per Vtu Syllabus)** C.L. Wadhwa,2007-01-01 *Pocket Book of Electrical Engineering Formulas* Richard C. Dorf,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 Government Reports Announcements & Index ,1986 Basic Electrical Formulae Andrew Butler,2006 A simple to use quick reference guide to basic electrical formulae containing worked examples of how to find Reactance Impedance Resistance Voltage Reactance Apparent True Power Horse

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Handbook of Basic Electrical Engineering Formulae Harish C Rai, Shivanshu Rai, 2018-06-30 Handbook of Basic Electrical Engineering Formulae has been designed to cater to the needs of practising engineers as well as undergraduate students of electrical engineering who wish to have a ready reference to formulae equations methods concepts and their mathematical formulations It is a comprehensive practical reference book which will be found extremely useful by all practising engineers irrespective of their individual domains to tackle day to day problems in the field of electrical engineering It contains a plethora of formulae graphs and tables presented in a clear and concise manner

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