

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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Introduction to Engineering Fluid Mechanics Marcel Escudier, 2017-10-27 We inhabit a world of fluids including air a gas water a liquid steam vapour and the numerous natural and synthetic fluids which are essential to modern day life Fluid mechanics concerns the way fluids flow in response to imposed stresses The subject plays a central role in the education of students of mechanical engineering as well as chemical engineers aeronautical and aerospace engineers and civil engineers This textbook includes numerous examples of practical applications of the theoretical ideas presented such as calculating the thrust of a jet engine the shock and expansion wave patterns for supersonic flow over a diamond shaped aerofoil the forces created by liquid flow through a pipe bend and or junction and the power output of a gas turbine The first ten chapters of the book are suitable for first year undergraduates The latter half covers material suitable for fluid mechanics courses for upper level students Although knowledge of calculus is essential this text focuses on the underlying physics The book emphasizes the role of dimensions and dimensional analysis and includes more material on the flow of non Newtonian liquids than is usual in a general book on fluid mechanics a reminder that the majority of synthetic liquids are non Newtonian in character

Materials Chemistry Bradley D. Fahlman, 2011-03-18 The 2nd edition of Materials Chemistry builds on the strengths that were recognized by a 2008 Textbook Excellence Award from the Text and Academic Authors Association TAA Materials Chemistry addresses inorganic organic and nano based materials from a structure vs property treatment providing a suitable breadth and depth coverage of the rapidly evolving materials field in a concise format The 2nd edition continues to offer innovative coverage and practical perspective throughout e g the opening solid state chemistry chapter uses color illustrations of crystalline unit cells and digital photos of models to clarify their structures This edition features more archetypical unit cells and includes fundamental principles of X ray crystallography and band theory In addition an ample amorphous solids section has been expanded to include more details regarding zeolite syntheses as well as ceramics classifications and their biomaterial applications The subsequent metals chapter has been re organized for clarity and continues to treat the full spectrum of powder metallurgical methods complex phase behaviors of the Fe C system and steels and topics such as corrosion and shape memory properties The mining processing of metals has also been expanded to include photographs of various processes occurring in an actual steelmaking plant The semiconductor chapter addresses evolution and limitations solutions of modern transistors as well as IC fabrication and photovoltaics Building on the fundamentals presented earlier more details regarding the band structure of semiconductors is now included as well as discussions of GaAs vs Si for microelectronics applications and surface reconstruction nomenclature The emerging field of soft lithographic patterning is now included in this chapter and thin film deposition methodologies are also greatly expanded to now include more fundamental aspects of chemical vapor deposition CVD and atomic layer deposition ALD The polymer and soft materials chapter represents the largest expansion for the 2nd edition This chapter describes all polymeric classes

including dendritic polymers as well as important additives such as plasticizers and flame retardants and emerging applications such as molecular magnets and self repairing polymers This edition now features click chemistry polymerization silicones conductive polymers and biomaterials applications such as biodegradable polymers biomedical devices drug delivery and contact lenses Final chapters on nanomaterials and materials characterization techniques are also carefully surveyed focusing on nomenclature synthetic techniques and applications taken from the latest scientific literature The 2nd edition has been significantly updated to now include nanotoxicity vapor phase growth of 0 D nanostructures and more details regarding synthetic techniques and mechanisms for solution phase growth of various nanomaterials Graphene recognized by the 2010 Nobel Prize in Physics is now also included in this edition Most appropriate for Junior Senior undergraduate students as well as first year graduate students in chemistry physics or engineering fields Materials Chemistry may also serve as a valuable reference to industrial researchers Each chapter concludes with a section that describes important materials applications and an updated list of thought provoking questions The appendices have also been updated with additional laboratory modules for materials synthesis e g porous silicon and a comprehensive timeline of major materials developments

The Librarian's Yellow Pages ,2002 Liutex and Third Generation of Vortex Definition and Identification Chaoqun Liu,Yiqian Wang,2021-07-26 This book collects papers presented in the Invited Workshop Liutex and Third Generation of Vortex Definition and Identification for Turbulence from CHAOS2020 June 9 12 2020 which was held online as a virtual conference Liutex is a new physical quantity introduced by Prof Chaoqun Liu of the University of Texas at Arlington It is a vector and could give a unique and accurate mathematical definition for fluid rotation or vortex The papers in this volume include some Liutex theories and many applications in hydrodynamics aerodynamics and thermal dynamics including turbine machinery As vortex exists everywhere in the universe a mathematical definition of vortex or Liutex will play a critical role in scientific research There is almost no place without vortex in fluid dynamics As a projection the Liutex theory will play an important role on the investigations of the vortex dynamics in hydrodynamics aerodynamics thermodynamics oceanography meteorology metallurgy civil engineering astronomy biology etc and to the researches of the generation sustenance modelling and controlling of turbulence

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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 Maxwell's Equations Paul G. Huray,2009-11-16 An authoritative view of Maxwell s Equations that takes theory to practice Maxwell s Equations is a practical guide to one of the most remarkable sets of equations ever devised Professor Paul Huray presents techniques that show the reader how to obtain analytic solutions for Maxwell s equations for ideal materials and boundary conditions These solutions are then used as a benchmark for solving real world problems Coverage includes An historical overview of electromagnetic concepts before Maxwell and how we define fundamental units and universal constants today A review of vector analysis and vector

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A Collection of Technical Formulae Kurt Gieck, Reiner Gieck, 2007 **Textbook Of Engineering Physics**

(Part I) RAJAGOPAL, K., 2008 **The Langevin Equation** W. T. Coffey, 1996 *Elementary Electrical Calculations* Thomas O'Connor Sloane, 2013-09 This historic book may have numerous typos and missing text Purchasers can usually download a free scanned copy of the original book without typos from the publisher Not indexed Not illustrated 1909 edition Excerpt for 1 gram of oxygen the heat is 34 450 f 8 4 306 calories and for 1 gram of water it is 34 450 9 3 828 calories In applying the formula these are the quantities which have to be multiplied by the electro chemical equivalents of oxygen or water as the case may be But the electro chemical equivalent of oxygen is equal to that of hydrogen multiplied by 8 and that of water is equal to that of hydrogen multiplied by 9 The result of the multiplication of the formula is therefore the same in all the three cases The electro chemical equivalent of oxygen is 0 000 082 9 that of water is 0 000 093 3 The formulas for the oxygen and water basis are obtained by substituting the respective factors in 4 giving For oxygen $E = 4.16 \times 0.000\,083 \times 4\,306\,1487$ volts For water $E = 4.16 \times 0.000\,093\,34 \times 3\,828\,1487$ volts which are the same as those obtained on the hydrogen basis The quantity of electricity required for depositing the number of grams of an element equal to its chemical equivalent is the same for all elements It is 9 580 4 C G S units or 95 804 coulombs Thus this quantity of electricity will deposit 107 1 grams of silver 29 15 grams of nickel 65 23 grams of gold 29 52 grams of tin and so on The e m f of a couple can be determined from this factor The energy of a cell is expressible in two ways It can be expressed in energy units such as ergs or in compound electric units each one the product of a unit of e m f by a unit of quantity These two must be equal to each other If the quantity of electricity is known it is obvious that the quotient of the energy unit divided by the quantity unit will give the e m f Example Calculate the e m f of the Daniell couple using the above factor Solution 9580 4 Applied Mathematical & Physical Formulas Vukota Boljanovic, 2007

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