

Kinematics (Velocity, time, acceleration)

$$x = vt$$

$$v = v_f + v_o$$

$$v = v_o \pm at$$

$$x = v_o t \pm \frac{1}{2}at^2$$

$$v^2 = v_o^2 \pm 2ax$$

Projectile Motion

$$r = \frac{v_o^2 \sin 2\theta}{g}$$

Otherwise
sum forces
and take time
at $v_y = 0$

Components

$$v_y = v \sin \theta$$

$$v_x = v \cos \theta$$

Sum vectors

$$r = \sqrt{x^2 + y^2}$$

$$\theta = \tan^{-1} \left(\frac{\Delta y}{\Delta x} \right)$$

Forces (mass, acceleration, friction, springs, momentum)

$$F = ma$$

$$\text{Weight} = mg$$

$$F_{\text{friction}} = \mu_k F_{\text{normal}}$$

$$F_{\text{friction}} = \tan \theta F_n$$

$$F_{\text{elastic}} = -kx$$

(k= spring constant)

Work/Energy /Power (Joules)

$$W = Fd \cos \theta$$

Joules = nm
Work = Δ energy

$$k = \frac{1}{2}mv^2$$

$$u = mgy$$

$$P = \text{work/time (watts)}$$

.. ..

Elastic Collisions (mass)

$$V_1 = \left(\frac{m_1 - m_2}{m_1 + m_2} \right) v_{1o} \quad M2$$

stationary

$$V_2 = \left(\frac{2m_1}{m_1 + m_2} \right) v_{1o} \quad M2$$

Gravity

$$G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$$

$$F_g = m_1 m_2 G/r^2$$

$$U = -Gm_1 m_2 / r$$

Fluids (density, mass, buoyant, flow)

$$M = dv$$

$$F_B = F_g \text{ For floating things}$$

$$F_B = mg = dvg$$

$$F_b = dvg$$

$$F_b = d_o/d_f \text{ (buoyancy)}$$

$$p_{\text{tot}} = p_o + dgh_{\text{tot}}$$

$$dv_1 A_1 = dv_2 A_2 \text{ (area, continuity)}$$

$$\text{mass flow rate} = d v A$$

$$Q = Av \text{ (volume flow rate)}$$

$$p_1 + \frac{1}{2}dv^2 + dgy = p_2 + \frac{1}{2}dv_2^2 + dgy_2$$

$$F_2 = F \left(\frac{R_2}{R_1} \right)^2 \text{ (hydraulics)}$$

ATM pressure = $1.01 \times 10^5 \text{ Pa}$

Circular Motion

$$1 \text{ radian} = 57.3$$

$$v = r\omega$$

$$\omega = \theta/t \text{ (}\omega \text{ is like velocity)}$$

$$\omega = 2\pi/t$$

$$\omega = \omega_o + at$$

$$\theta = \omega_o t + \frac{1}{2}at^2$$

$$\omega^2 = \omega_o^2 + 2a\theta$$

$$P = r\omega$$

$$\tau = r f \sin \theta \text{ (torque)}$$

$$A_c = v^2/r$$

$$F_c = mv^2$$

Electricity (charge, field, circuits, potential energy, amps)

$$K = 9 \times 10^9 \text{ Nm}^2/\text{C}^2$$

$$q = ne \text{ (charge)}$$

$$E = 1.6 \times 10^{-19} \text{ C (electron)}$$

$$M_e = 9.109 \times 10^{-31} \text{ kg}$$

$$M_p = 1.672 \times 10^{-27} \text{ kg}$$

$$F = \frac{kq_1 q_2}{r^2}$$

$$E = kq/r^2 \text{ (field)}$$

$$\frac{kq_1}{x^2} = \frac{kq_2}{(d-x)^2}$$

$$U = -qed \text{ (work)}$$

$$ED = u/q = j/c = \text{volt}$$

$$w = \Delta vq$$

$$I = q/t \text{ (current)}$$

$$V = IR$$

$$jS/c^2 = \Omega$$

$$P = IV = v^2/r = I^2 R$$

Series	Parallel
$I = I_1 = I_2 \dots$	$I = I_1 + I_2 \dots$
$V = V_1 + V_2 \dots$	$V = V_1 = V_2$
$R = R_1 + R_2 \dots$	$1/R = 1/R_1 + \dots$

Magnets (Earth's field 10^{-5} T)

$$F = qvB \sin \theta \text{ (B=magnetic field strength)}$$

$$B = \frac{\mu I}{2\pi \text{ distance}} = F/qv = \text{Tesla} = \text{N/(C m/s)}$$

$$\mu = 4\pi \times 10^{-7} \text{ Tm/A (in long straight wire)}$$

$$B = \frac{\mu I}{2r} \text{ (center of circular loop)}$$

$$B = \mu n I \left(n = \frac{\text{turns}}{\text{meter}} \right)$$

Stress and Strain

$$\text{stress} = \frac{F}{A}$$

$$\text{strain} = \frac{\Delta L}{L_o}$$

$$\text{Elastic mod} = \frac{F}{A} / \frac{\Delta L}{L_o}$$

$$\frac{F_1}{A_1} = \frac{F_2}{A_2} \text{ (hydraulic)}$$

$$\text{Shear force} = (F/A)/$$

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Dan Mihai Stefanescu



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International Europhysics Conference on High Energy Physics Daniel Lellouch, Giora Mikenberg, Eliezer Rabinovici, 2012-12-06 The 1997 International Europhysics Conference on High Energy Physics was held at the campus of the Hebrew University of Jerusalem and at the Jerusalem Renaissance Hotel from August 19th to August 25th 1997 This was the first time that the European Physical Society had its High Energy Physics Conference outside the boundary of Europe A total of 550 physicists participated in the conference with a total of 250 presentations in the parallel sessions and 26 presentations in the plenary sessions The Board of the of the High Energy and Particle Physics division HEPP of the EPS acted as the Scientific Organizing Committee The Board acknowledges the help of the International Advisory Committee as well as that of the Local Organizing Committee The conference was co organized by the Hebrew University of Jerusalem and by the Weizmann Institute of Science with important help by physicists from the Israeli Institute of Technology Technion and the Tel Aviv University

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hadron collisions relativistic heavy ion collisions interface between high energy collisions and cosmic ray physics and recent development in deconfinement **World Meetings** ,1997 **Handbook of Force Transducers** Dan Mihai Stefanescu,2011-03-16 Part I introduces the basic Principles and Methods of Force Measurement according to a classification into a dozen of force transducers types resistive inductive capacitive piezoelectric electromagnetic electrodynamic magnetoelastic galvanomagnetic Hall effect vibrating wires micro resonators acoustic and gyroscopic Two special chapters refer to force balance techniques and to combined methods in force measurement Part II discusses the Strain Gauge Force Transducers Components evolving from the classical force transducer to the digital intelligent one with the incorporation of three subsystems sensors electromechanics and informatics The elastic element EE is the heart of the force transducer and basically determines its performance A 12 type elastic element classification is proposed stretched compressed column or tube bending beam bending and or torsion shaft middle bent bar with fixed ends shear beam bending ring yoke or frame diaphragm axial stressed torus axisymmetrical and voluminous EE with emphasis on the optimum location of the strain gauges The main properties of the associated Wheatstone bridge best suited for the parametrical transducers are examined together with the appropriate electronic circuits for SGFTs The handbook fills a gap in the field of Force Measurement both experts and newcomers no matter of their particular interest finding a lot of useful and valuable subjects in the area of Force Transducers in fact it is the first specialized monograph in this inter and multidisciplinary field **A Textbook of Physics: Electricity and magnetism** Ernst Grimsehl,1933 Contributed Papers ,1999 **European Conference on Optical Communication** ,1998 **Scientific Research in British Universities and Colleges** ,1975 Tappi Journal ,1986 **III-Nitride Semiconductors** Hongxing Jiang,2002-07-26 This second part presents a comprehensive overview of fundamental optical properties of the III Nitride Semiconductor All optoelectronic applications based on III nitrides are due to their unique optical properties and characterizations of III nitrides Much information which is critical to the design and improvement of optoelectronic devices based on III nitrides has been obtained in the last several years This is the second of a two part Volume in the series Optoelectronic Properties of Semiconductors and Superlattices Part II consists of chapters with emphasis on the optical spectroscopy of highly excited group III nitrides theoretical calculations and experimental measurements of optical constants of III nitrides The remaining five chapters focus on the relationships and properties of GaN and InGaN as relating to III Nitrides This unique volume provides a comprehensive review and introduction of the defects and structural properties of GaN and related compounds for newcomers to the field and will be a stimulus to further advances for experienced researchers The chapters contained in this volume constitutes a representative sampling of the broad range of research on nitride semiconductor materials and defect issues currently being pursued in academic government and industrial laboratories worldwide *Particle Physics and Cosmology: Dark Matter* M. Srednicki,2012-12-02 At least eighty percent of the mass of the universe consists of some material which unlike ordinary

matter neither emits nor absorbs light This book collects key papers related to the discovery of this astonishing fact and its profound implications for astrophysics cosmology and the physics of elementary particles The book focuses on the likely possibility that the dark matter is composed of an as yet undiscovered elementary particle and examines the boundaries of our present knowledge of the properties such a particle must possess *ECOC '98 : 24th European Conference on Optical Communication: Regular and invited papers*, 1998 World Meetings Outside U.S.A. and Canada, 1996 Indian Army Acc Entrance Exam Arihant Experts, 2018-04-20 Army Cadet College ACC is a wing of Indian Military Academy responsible for providing three years of an intense training to the Indian Soldiers to transform them into Officer for Indian Army Conducting the Indian Army Entrance Exam twice in a year it selects candidates from serving soldiers of Indian Army Navy and Air Force through a selection process which undergoes three phases of tests namely Written Phase SSB Interview and Medical Test The first gate of entry i e Written Test consists of four papers revolving around the topics like General Mental Ability Current General Awareness Interactive Communicative English and Academic Contest Test respectively The new edition of Indian Army ACC Entrance Exam is a Complete Study Package for aspirants preparing for the forthcoming exam It covers the Chapterwise Theory of the entire subjects along with more than 3500 Multiple Choice Questions to give a focused conceptual understanding to the aspirants Model Papers have also been given for the self assessment Structured as per latest syllabus and exam pattern it will support aspirants greatly with its ample amount of study material Table of Contents Model Papers Paper I General Mental Ability Test Reasoning Ability Numerical Ability Paper II Current General Awareness India and World Paper III Interactive Communicative English Objective English Descriptive English Paper IV Academic Contest Test Mathematics General Science Physics Chemistry Biology Humanities **Solar-terrestrial Physics 1986** Bengt Hultqvist, David Rees, Ulf von Zahn, 1987 **Marine Corrosion of Stainless Steels** D. Féron, 2021-04-14 This is Number 33 of the Marine Corrosion of Stainless Steels a publication of the European Federation of Corrosion EFC Part I of this volume on the Marine Corrosion of Stainless Steels consists of five chapters and is concerned with tests that were conducted in the 1990s on the corrosivity of European sea waters Atlantic Baltic English Channel Mediterranean and North Sea towards three types of stainless steels Results from these two test programmes were presented at a European Workshop on Sea Water Corrosion of Stainless Steels in Trondheim in 1996 and at various corrosion conferences mostly in Europe The other four chapters in Part I describe experimental procedures critical pitting temperature data crevice corrosion results and results from the MAST biofilm studies The remaining 23 chapters of the book are concerned with reviews and reports that develop the above topics *Credible Asset Allocation, Optimal Transport Methods, and Related Topics* Songsak Sriboonchitta, Vladik Kreinovich, Woraphon Yamaka, 2022-07-29 This book describes state of the art economic ideas and how these ideas can be and are used to make economic decision in particular to optimally allocate assets and to gauge the results of different economic decisions in particular by using optimal transport methods Special emphasis is paid to machine learning techniques

including deep learning and to different aspects of quantum econometrics when quantum physics and quantum computing models are techniques are applied to study economic phenomena Applications range from more traditional economic areas to more non traditional topics such as economic aspects of tourism cryptocurrencies telecommunication infrastructure and pandemic This book helps student to learn new techniques practitioners to become better knowledgeable of the state of the art econometric techniques and researchers to further develop these important research directions **Integrated Optical Circuits and Components** Edmond J. Murphy, 2020-08-27 Updates the advancements made in the level of achievable integration of optical circuits and components in the last ten years highlighting the commercial success of particular devices as well as introducing multiple facets of integrated optics Optica Acta ,1986

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we have 8 ready to use problem sets on the topic of rotational kinematics these problem sets focus on the analysis of situations involving a rigid object rotating in either a clockwise or counterclockwise direction about a given point the object's rotation speed may be increasing decreasing or remaining constant

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rotational kinematics in the section on uniform circular motion we discussed motion in a circle at constant speed and therefore constant angular velocity however there are times when angular velocity is not constant rotational motion can speed up

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evaluate problem solving strategies for rotational kinematics just by using our intuition we can begin to see how rotational quantities like θ , ω and α are related to one another for example if a motorcycle wheel has a large angular acceleration for a fairly long time it ends up spinning rapidly and rotates through many revolutions

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these are only true if the angular acceleration is constant but if it is constant these are a convenient way to relate all these rotational motion variables and you can solve a ton of problems using these rotational kinematic formulas

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problem a fan initially rotates clockwise at 9.0 rad/s but has a counterclockwise angular acceleration of 3.0 rad/s^2 and

reaches a counterclockwise angular speed of 27 rad/s how much time did this change in the angular velocity take