

PHYSICAL CONSTANTS

- Speed of Light $c = 3 \times 10^8 \text{ m/s}$
- Planck constant $h = 6.63 \times 10^{-34} \text{ J}\cdot\text{s}$
- Gravitation constant $G = 6.67 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2$
- Boltzmann constant $k = 1.38 \times 10^{-23} \text{ J/K}$
- Molar gas constant $R = 8.314 \text{ J/mol}\cdot\text{K}$
- Avogadro's number $N_A = 6.023 \times 10^{23} / \text{mol}$
- Charge of electron $e = 1.602 \times 10^{-19} \text{ C}$
- Permeability of vacuum $\mu_0 = 4\pi \times 10^{-7} \text{ N/A}^2$
- Permittivity of vacuum $\epsilon_0 = 8.85 \times 10^{-12} \text{ F/m}$
- Coulomb constant $k_{e,c} = 9 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2$
- Faraday constant $F = 96485 \text{ C/mol}$
- Mass of electron $m_e = 9.1 \times 10^{-31} \text{ kg}$
- Mass of proton $m_p = 1.6726 \times 10^{-27} \text{ kg}$
- Mass of neutron $m_n = 1.6749 \times 10^{-27} \text{ kg}$
- Atomic mass unit $u = 1.66 \times 10^{-27} \text{ kg}$
- Stefan-Boltzmann constant $\sigma = 5.67 \times 10^{-8} \text{ W/m}^2\cdot\text{K}^4$
- Rydberg constant $R_\infty = 1.097 \times 10^7 / \text{m}$
- Bohr magneton $\mu_B = 9.27 \times 10^{-24} \text{ J/T}$
- Bohr radius $a_0 = 0.529 \times 10^{-10} \text{ m}$
- Standard atmosphere $1 \text{ atm} = 1.01325 \times 10^5 \text{ Pa}$
- Wien displacement constant $b = 2.9 \times 10^{-3} \text{ m}\cdot\text{K}$

LAWS OF MOTION

- 1st Law: Inertia 2nd Law: $F = dP/dt = ma$ 3rd Law: Action \Rightarrow Reaction
- Friction: $f_{\text{static}} = \mu_s N$ $f_{\text{kinetic}} = \mu_k N$
- Centripetal force $= \frac{mv^2}{r} = m\omega^2 r$
- PSEUDO FORCE** $-m a_{\text{ref. frame}}$
- VERTICAL CIRCULAR MOTION**
 $T \cos \theta = mv^2/r$
 $T \cos \theta = mg$
 $\tan \theta = v^2/rg$
- CURVED BANKING**
 $\frac{v^2}{rg} = \tan \theta$ $\frac{v^2}{rg} = \frac{\mu + \tan \theta}{1 - \mu \tan \theta}$



WORK, POWER & ENERGY

- Work $= \vec{F} \cdot \vec{s} = F s \cos \theta$
- $\int \vec{F} \cdot d\vec{s} = 0$ (work by conservative force in a closed path)
- Power $= dW/dt = \vec{F} \cdot \vec{v}$
- KE $= \frac{1}{2} mv^2$
- POTENTIAL ENERGY (U)
 $U_f = mgh$ $\vec{F} = -dU/dx$
 Spring $= \frac{1}{2} kx^2$ $K + U = \text{Conserved}$
- WORK-ENERGY THEOREM**
 $W_{\text{net}} = \Delta K$

VECTORS

- $\vec{a} = a_x \hat{i} + a_y \hat{j} + a_z \hat{k}$ $|\vec{a}| = \sqrt{a_x^2 + a_y^2 + a_z^2}$
- Dot Product** $\vec{a} \cdot \vec{b} = a_x b_x + a_y b_y + a_z b_z = ab \cos \theta$
- Cross Product** $\vec{a} \times \vec{b} = ab \sin \theta$
- $\vec{a} \times \vec{b} = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ a_x & a_y & a_z \\ b_x & b_y & b_z \end{vmatrix} = (a_y b_z - a_z b_y)\hat{i} + (a_z b_x - a_x b_z)\hat{j} + (a_x b_y - a_y b_x)\hat{k}$

CENTER OF MASS

- $x_{cm} = \frac{\sum x_i m_i}{\sum m_i} = \frac{\int x dm}{\int dm}$
- $\vec{v}_{cm} = \frac{\sum m_i \vec{v}_i}{\sum m_i}$ $\vec{F} = m \vec{a}_{cm}$
- Hollow Cone $= \frac{3}{8} h$
- Solid Cone $= \frac{3}{4} h$
- HOLLOW $= \frac{3}{2} h$
- SOLID $= \frac{3}{2} h$

COLLISION

- MOMENTUM CONSERVATION (Always)**
 $m_1 u_1 + m_2 u_2 = m_1 v_1 + m_2 v_2$
- ENERGY CONSERVATION {Elastic}**
 $\frac{1}{2} m_1 u_1^2 + \frac{1}{2} m_2 u_2^2 = \frac{1}{2} m_1 v_1^2 + \frac{1}{2} m_2 v_2^2$
- $C.R = e = \frac{V_{\text{rebound}}}{V_{\text{approach}}} = \frac{v_1 - v_2}{u_1 - u_2}$
- $m_1 \gg m_2$
 $m_1 \rightarrow$ undisturbed motion
 Solve using CoR in m_1 Frame
- $m_1 = m_2$
 Velocity Exchange for Elastic

KINEMATICS

- $\vec{v}_{avg} = \Delta \vec{s} / \Delta t$ $\vec{v}_{inst} = d\vec{s}/dt$
- $\vec{a}_{avg} = \Delta \vec{v} / \Delta t$ $\vec{a}_{inst} = d\vec{v}/dt$
- $s = ut + \frac{1}{2} at^2$
- $v = u + at$
- $v^2 = u^2 + 2as$
- RELATIVE VELOCITY**
 $\rightarrow v_{A/B} = v_A - v_B$

PROJECTILE MOTION

- $u_x = u \cos \theta$ $u_y = u \sin \theta$
- $H = \frac{u^2 \sin^2 \theta}{2g}$
- Time of Flight $= 2u_y/g \Rightarrow T = 2u \sin \theta / g$
- Range $= u_x T \Rightarrow R = \frac{u^2 \sin 2\theta}{g}$
- $y = \tan \theta \cdot x - \left(\frac{g}{2u^2 \cos^2 \theta}\right) \cdot x^2$

RIGID BODY DYNAMICS

- $\omega = \frac{\Delta \theta}{\Delta t} = \frac{d\theta}{dt}$ $\alpha = \frac{\Delta \omega}{\Delta t} = \frac{d\omega}{dt}$ $\vec{v} = \vec{\omega} \times \vec{r}$ $\vec{a}_{tan} = \vec{\alpha} \times \vec{r}$
- $\theta = \omega_0 t + \frac{1}{2} \alpha t^2$ $\omega = \omega_0 + \alpha t$ $\omega^2 = \omega_0^2 + 2\alpha \theta$
- $\vec{L} = \vec{r} \times \vec{p} = m \vec{r} \times \vec{v}$ $\vec{\tau} = \vec{r} \times \vec{F} = r F \sin \theta$
- $\vec{\tau} = I \alpha = dL/dt$
- EQUILIBRIUM**: $\vec{F}_{net} = 0$ $\vec{\tau}_{net} = 0$ $\omega = 2\pi f$ $T = 1/f$
- $\omega = v/r$

Basics Of Physics

Richard L. Myers



Basics Of Physics:

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Basic Physics for Beginners Darrell Ason,2024-10-24 Whether this is you first time delving into it or you simply need a refresher s course THIS IS THE MOST HIGHLY DIGESTIBLE FOOD FOR YOUR BRAIN AVAILABLE right here Are you looking for a way to learn the basic principles of physics in the easiest way possible Many students will agree if you tell them that Physics is a challenging subject It s true From understanding Newton s Law to exploring how energy works to how electric and magnetic fields are intertwined Physics is a complicated subject The problem with many books about Physics is that they are often outdated and it makes learning the subject even more difficult Many resources that are used in the school as students learning material are written long before the students were born The problem is not with YOU but with the resources you use to learn You need a book that is written on the same level of your understanding Luckily for you this Basic Physics for Beginners is the ultimate guidebook you ll ever need to learn the basics of Physics This comprehensive yet easy to follow book on the principles of Physics will make you master the subject the easiest way Here s what you ll get Comprehensive Topics on Physics From the history of the basic principles to the application of the rules and logic this book covers everything you need to know Simplified Explanations on Basic Concepts With the fundamental principles explained straightforwardly you ll no longer worry about your learning process Simplified Formulas No alien alphabets in this book you are assured The little Formulas in here are explained in a easy peasy way Don t panic In short highly digestible brain food And so much more It s about time for you to change your misconceptions about Physics With this guidebook becoming a self taught scientist is no longer a struggle

Basics of Mechanics Dr. Shubhankar Bhowmick,Dr. Neigapula Venkata Swamy Naidu,2025-01-01

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Ultrasound Fundamentals Jinlei Li,Robert Ming-Der Chow,Nalini Vadivelu,Alan David Kaye,2021-03-03 Written by experts in the field this concise and evidence based ultrasound text includes key topics ranging from the head and neck to the upper and lower extremity covering all the clinically relevant sonoanatomy This 33 chapter book emphasizes the practical use of ultrasound for the diagnosis and treatment of a multitude of conditions in various specialty areas such as airway management cardiovascular disease assessment pulmonary status evaluation orthopedics gynecology and pediatrics The optimal techniques and the step by step interpretation of normal and pathologic sonoanatomy are discussed in detail This text can be used as a starting point for the study of ultrasound guided diagnosis and treatment a refresher manual for sonoanatomy on major organ systems or a last minute guide before a bedside procedure There is a great breadth of material that is covered in a comprehensive manner making it a great resource for board review and exam preparation for various medical surgical and allied specialties Unique and pragmatic *Ultrasound Fundamentals* is a back to basics manual on normal and pathologic sonoanatomy of head and neck upper and lower extremity chest abdomen and other major organ systems

The Heart of Wisdom Teaching Approach Robin Sampson,2005-04 Details the Bible based homeschool teaching approach for parents and discusses Christian education learning styles unit studies bible study and more **Fundamentals of Physics** David Halliday,2001 **A Practical Introduction to Computer Architecture** Daniel Page,2009-04-14 It is a great pleasure to write a preface to this book In my view the content is unique in that it blends traditional teaching approaches with the use of mathematics and a mainstream Hardware Design Language HDL as formalisms to describe key concepts The book keeps the machine separate from the application by strictly following a bottom up approach it starts with transistors and logic gates and only introduces assembly language programs once their execution by a processor is clearly defined Using a HDL Verilog in this case rather than static circuit diagrams is a big deviation from traditional books on computer architecture Static circuit diagrams cannot be explored in a hands on way like the corresponding Verilog model can In order

to understand why I consider this shift so important one must consider how computer architecture a subject that has been studied for more than 50 years has evolved In the pioneering days computers were constructed by hand An entire computer could just about be described by drawing a circuit diagram Initially such diagrams consisted mostly of analogue components before later moving toward digital logic gates The advent of digital electronics led to more complex cells such as half adders flip ops and decoders being recognised as useful building blocks

Ultrasound for Primary Care Paul Bornemann,2020-07-29 Master high yield point of care ultrasound applications that are targeted specifically to answer questions that arise commonly in the outpatient clinic Written for primary care providers in Family Medicine Pediatrics and Internal Medicine Ultrasound for Primary Care is a practical easy to read guide Learn to incorporate ultrasound to augment your physical exam for evaluation of thyroid nodules enlarged lymph nodes pericardial effusion chronic kidney disease and a host of musculoskeletal issues and much more Additionally included are chapters on ultrasound for guidance of procedures including joint injections lumbar puncture and needle biopsy to name a few Well illustrated and highly templated this unique title helps you expand the scope of your practice and provide more effective patient care This is the tablet version which does not include access to the supplemental content mentioned in the text

Basic Physics ,2018 Factory Physics Wallace J. Hopp,Mark L. Spearman,2001 Publisher Description

The Basics of Physics Richard L. Myers,2005-12-30 Students will be introduced to the science of physics and its applications to everyday life in this volume Tracing its development from antiquity to the present the author examines all aspects of physics including motion work energy heat matter light and electricity Quantum Nuclear physics are also included The chapter with instructions for experiments in physics will assist students in projects for science fairs and the chapter on physics as a career will help students to explore the various options for working in this field of science A glossary conversion table and list of the Nobel Prize Winners in Physics will provide the additional tools necessary for students

Handbook of Critical Care and Emergency Ultrasound Kristin A. Carmody,Christopher L. Moore,David Feller-Kopman,2011-09-05 A quick access practical handbook for the use of ultrasound in critical care and emergency department settings Point of care ultrasound offers a readily available noninvasive reproducible modality that can expedite and improve care in the critical care and the emergency setting This handy guide clarifies basic concepts and provides the hands on guidance necessary for clinicians to arrive at better therapeutic decisions and perform safer procedures with the use of ultrasound Handbook of Critical Care and Emergency Ultrasound opens with important chapters on ultrasound basics ultrasound orientation and probe selection machine controls and equipment 22 additional chapters cover organ or system specific procedural applications and approaches to the trauma patient You will also find algorithms for the patient with undifferentiated chest pain dyspnea hypotension and abdominal pain 259 drawings and photographs support the text illustrating patient positioning basic views anatomy and common pathology Handbook of Critical Care and Emergency Ultrasound is the perfect resource for critical care and emergency providers who wish to deepen their knowledge

of sonography and broaden their use of ultrasound in the care of their patient

Macmillan Encyclopedia of Physics John S. Rigden, 1996 Offers clear explanations of the basic concepts history philosophy fundamental theories and laws of physics as well as biographical entries featuring physicists who have contributed to our knowledge of the physical world The set will be useful for physics students from high school through graduate school and for general readers exploring the mysteries of everyday life such as What causes earthquakes How do CAT Scans work or How do clouds form Articles are arranged in alphabetical order and include cross references and bibliographic references as recent as 1996 Volume one contains a Reader's Guide which identifies some key entries in the encyclopedia's plan A table of symbols and abbreviations is included at the beginning of each volume to assist readers unfamiliar with any mathematical or scientific notation that might arise The 4 volume set offers readers clear explanations for the phenomena concepts and laws that are the foundation of every other branch of science from astronomy to zoology The entries are written to let readers satisfy their curiosity without becoming lost in high level jargon Specifically written to supplement the high school physics curriculum the Encyclopedia satisfies the informational needs of a broad range of readers

Introduction to Nitride Semiconductor Blue Lasers and Light Emitting Diodes Shuji Nakamura, Shigefusa F. Chichibu, 2000-03-09 The blue laser is an exciting new device used in physics The potential is now being recognized for its development into a commercial lighting system using about a tenth of the power and with a thousand times the operating lifetime of a comparable conventional system This comprehensive work introduces the subject at a level suitable for graduate students It covers the basics physics of light emitting diodes LEDs and laser diodes LDs based on gallium nitride and related nitride semiconductors and gives an outline of their structural transport and optical properties and the relevant device physics It begins with the fundamentals and covers both theory and experiment as well as an examination of actual and potential device applications Shuji Nakamura and Nichia Chemicals Industries made the initial breakthroughs in the field and these have revealed that LEDs and LDs are a sophisticated physical phenomenon and a commercial reality

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