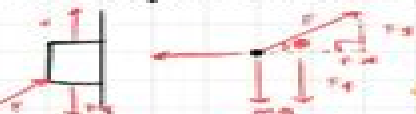


# PHYSICS 1 FINAL REVIEW

## Newton's Laws - FORCE DIAGRAMS



## Force Diagram with coordinate system



## Circular Motion Diagram



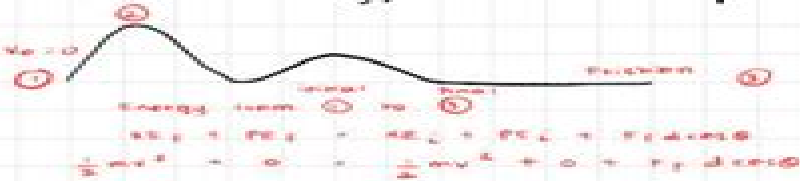
## Circular motion @ Top & Bottom of trajectory



## Conservation of Energy

$$KE_1 + PE_1 = KE_2 + PE_2 + W_{nc}$$

## conservation of Energy roller coaster Example



## Elastic Potential Energy - SPRINGS



## Power

The rate at which forces do work  
 $P = \frac{\Delta E}{t}$

## Efficiency

How much waste

## Units of Force

$$N = \frac{kg \cdot m}{s^2}$$

## Static vs kinetic friction

Static: object is not moving  
 $F_{max} = \mu_s F_n$   
 Kinetic:  $F_f = \mu_k F_n$

## Inclined Planes



## Conditions for static equilibrium

$$(1) \Sigma \vec{F} = 0 \quad (2) \Sigma \vec{\tau} = 0$$

## Torque force diagram

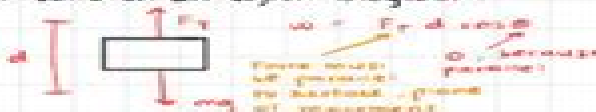


## Orbitation

$$|\vec{F}_{cent-on-moon}| = |\vec{F}_{moon-on-earth}|$$

mass of earth > mass of moon

## Work Done on an object Diagram



# KINEMATICS / MECHANICS

## work Done by conservative forces

$$W_{cons} = -(PE_f - PE_i)$$

Ex) friction, applied force, push & pull, airman - non-cons forces

## Density

$$\rho = \frac{m}{V} \quad \text{units: } \frac{kg}{m^3}$$

## Specific Gravity

Density of substance  
 Density of H2O @ 40°C  
 → 1000  $\frac{kg}{m^3}$   
 No units

## Pressure

$$P = \frac{F_A}{A} \quad \text{perpendicular to surface}$$

$$\text{units: } \frac{N}{m^2} = Pa$$

## Pressure in static fluids

fluid can exert pressure in any direction  
 $P_{above} = P_{below}$  - pressure is the same in all directions at any depth  
 force must be ⊥ to the surface it is acting with

## Pressure Varies with Depth

$$P = \frac{F}{A} = \frac{mg}{A} = \rho h g$$

units:  $1 Pa = 1 N/m^2$

## Gauge Pressure

$$P = P_{atm} + P_{gauge}$$

## Atmospheric Pressure

Sea level = 1 atm = 1.013 × 10<sup>5</sup> N/m<sup>2</sup> = 101.3 kPa

## Pascal's Principle

$$P_1 = P_2$$

$$\frac{F_{out}}{A_{out}} = \frac{F_{in}}{A_{in}} = \frac{D \cdot h}{A_{out}}$$

# Physics 2 Topics

**Steven Holzner**



## Physics 2 Topics:

**AP Physics 2 Essentials: An Aplusphysics Guide** Dan Fullerton, 2015-03-02 The best physics books are the ones kids will actually read AP Physics 2 Essentials is an easy to read companion to the AP Physics 2 curriculum featuring more than 450 worked out problems with full solutions AP Physics 2 Essentials covers all major topics of the AP Physics 2 course including fluids thermal physics electrostatics circuits magnetism optics and modern physics AP Physics 2 Essentials is integrated with the APlusPhysics.com website which includes online question and answer forums videos animations and supplemental problems to help you master the essential concepts of physics This book is designed to assist physics students in their high school AP Physics courses both as a guide throughout the course as well as a review book to assist in end of course exam preparation Its focus is on providing the bare bones essential concepts necessary for success in the course in a straightforward and easy to read manner leaving development of in depth problem solving and lab work to the classroom where it is most effective In short this is not intended as a substitute for a standard textbook or course but rather as an invaluable supplementary resource This book includes more than 60 AP style problems to test your understanding and help prepare you for the AP Physics 2 Exam Additional supplemental problems are available on the APlusPhysics website

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possess extensive credentials are educated in top colleges and universities and have years of teaching and editorial experience

*Sterling Test Prep AP Physics 2 Practice Questions* Sterling Prep, 2015-06-06 Last updated September 26 2017 Used books may have outdated content We make content updates every 4-6 weeks based on customers comments editorial input and latest test changes The most current version is only available directly from Amazon Barnes Noble and Sterling Test Prep web store AP Physics 2 best seller High yield practice questions with detailed explanations to review all topics tested on AP Physics 2 Thermodynamics Fluid statics dynamics Geometric physical optics Atomic nuclear quantum physics Electrostatics magnetism DC RC circuits This AP Physics 2 book contains 700 physics practice questions that test all topics on the AP Physics 2 exam It contains four diagnostic tests with two more available online to help students identify the topics they are not well prepared for It also contains six sections of topical AP Physics 2 practice questions so a student can selectively work with an individual topic they need to study and master In the second part of the book there are answer keys and explanations for the problems in the diagnostic tests and topical practice questions These explanations also make this study guide an excellent AP Physics 2 review book The explanations provide step by step solutions for qualitative questions and detailed explanations for conceptual questions The explanations include the foundations and important AP Physics 2 essentials needed to answer related questions on the exam By reading these explanations carefully and understanding how they apply to solving the question students learn important physical concepts and the relationships between them This prepares them for the exam and maximizes their score All the questions in this book are prepared by physics instructors with years of experience in applied physics as well as in academic settings This team of physics experts analyzed the content of the test released by the College Board and designed practice questions that will help students build knowledge and develop the skills necessary for success on the exam The questions were reviewed for quality and effectiveness by our science editors who possess extensive credentials are educated in top colleges and universities and have years of teaching and editorial experience

**APlusPhysics** Dan Fullerton, 2011-04-28 APlusPhysics Your Guide to Regents Physics Essentials is a clear and concise roadmap to the entire New York State Regents Physics curriculum preparing students for success in their high school physics class as well as review for high marks on the Regents Physics Exam Topics covered include pre requisite math and trigonometry kinematics forces Newton's Laws of Motion circular motion and gravity impulse and momentum work energy and power electrostatics electric circuits magnetism waves optics and modern physics Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations this book is integrated with the APlusPhysics.com website which includes online question and answer forums videos animations and supplemental problems to help you master Regents Physics essentials The best physics books are the ones kids will actually read Advance Praise for APlusPhysics Regents Physics Essentials Very well written simple clear engaging and accessible You hit a grand slam with this review book Anthony NY Regents Physics Teacher Does a great job giving students what they need to know

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**Cracking the AP Physics 2 Exam, 2020 Edition** Princeton Review Staff, The Princeton Review, 2019-08-06 Cracking the AP Physics 2 Exam 2020 Edition provides students with a comprehensive review of all the algebra based topics covered on the AP Physics 2 Exam This title includes content coverage of topics on the exam such as thermodynamics electrostatics DC and RC circuits magnetism and electromagnetic induction optics and more It also includes step by step strategies for cracking even the toughest problems and 2 full length practice tests

**Physics II For Dummies** Steven Holzner, 2010-06-15 A plain English guide to advanced physics Does just thinking about the laws of motion make your head spin Does studying electricity short your circuits Physics II For Dummies walks you through the essentials and gives you easy to understand and digestible guidance on this often intimidating course Thanks to this book you don't have to be Einstein to understand physics As you learn about mechanical waves and sound forces and fields electric potential and electric energy and much more you'll appreciate the For Dummies law The easier we make it the faster you'll understand it An extension of the successful Physics I For Dummies Covers topics in a straightforward and effective manner Explains concepts and terms in a fast and easy to understand way Whether you're currently enrolled in an undergraduate level Physics II course or just want a refresher on the fundamentals of advanced physics this no nonsense guide makes this fascinating topic accessible to everyone

**Sterling Test Prep AP Physics 2 Review: Complete Content Review for AP Physics 2 Exam** Sterling Test Prep, 2017-06-28 AP Physics 2 Review provides a detailed review of topics tested on the AP Physics 2 exam The content covers foundational principles and concepts necessary to answer related questions on the test including thermodynamics fluid statics dynamics geometric physical optics atomic nuclear physics particle physics electrostatics magnetism DC RC circuits and quantum mechanics

**AP Physics 2 with Online Tests** Kenneth Rideout, Jonathan Wolf, 2020-07-07 Barron's brand new AP Physics 2 with Online Tests provides four practice tests and key review for the AP Physics 2 exam The College Board has announced that there are May 2021 test dates available are May 3 7 and May 10 14 2021 Content corresponds to the topics covered in a second year algebra based physics class AP Physics 2 helps students review electric magnetic and gravitational fields circuits and capacitance fluid dynamics thermodynamics optics and modern physics AP Physics 2 includes Two practice tests in the book with all questions answered and explained Two online practice tests with all questions answered and explained A diagnostic test in the book to help students target areas where they need more study Practice questions and review covering all test areas Tips and advice for dealing with the new problem types introduced on this test

*Calculus-Based Physics II* Jeffrey Schnick, Textbook Equity, 2013-11-30 This is volume II of Calculus Based Physics by Jeffrey Schnick It covers another 37 chapters from Charge

Coulomb's Law to Maxwell's Equations For volume I see <https://www.create-space.com/4525803> This textbook along with vol II has been peer reviewed and received 4.9 out of a maximum score of five. Reviewer's Comments: This is a basic text covering the essential topics in a conversational, engaging style. I would recommend this book to be used for the first semester of a first-year physics course. While this is best suited for students who are taking calculus concurrently, basic ideas in calculus are also covered for the students who have less mathematical background. Dr. Mei Ling Shek, Adjunct Faculty, Santa Clara University, <http://collegeopentextbooks.org/opentextbookcontent/thereviews/science/> This is a truly open education resource published by Textbook Equity under a CC BY-SA license provided by the author. See [opencollegetextbooks.org/](http://opencollegetextbooks.org/) for other titles.

**Understanding by Design** Grant P. Wiggins, Jay McTighe, 2005. What is understanding and how does it differ from knowledge? How can we determine the big ideas worth understanding? Why is understanding an important teaching goal and how do we know when students have attained it? How can we create a rigorous and engaging curriculum that focuses on understanding and leads to improved student performance in today's high-stakes, standards-based environment? Authors Grant Wiggins and Jay McTighe answer these and many other questions in this second edition of *Understanding by Design*. Drawing on feedback from thousands of educators around the world who have used the UbD framework since its introduction in 1998, the authors have greatly revised and expanded their original work to guide educators across the K-16 spectrum in the design of curriculum, assessment, and instruction. With an improved UbD Template at its core, the book explains the rationale of backward design and explores in greater depth the meaning of such key ideas as essential questions and transfer tasks. Readers will learn why the familiar coverage and activity-based approaches to curriculum design fall short and how a focus on the six facets of understanding can enrich student learning. With an expanded array of practical strategies, tools, and examples from all subject areas, the book demonstrates how the research-based principles of *Understanding by Design* apply to district frameworks as well as to individual units of curriculum. Combining provocative ideas, thoughtful analysis, and tested approaches, this new edition of *Understanding by Design* offers teacher designers a clear path to the creation of curriculum that ensures better learning and a more stimulating experience for students and teachers alike.

**Simply Good Physics** Arnold W. Yanof, 2014-03-25. *To the Student*: *Simply Good Physics 2* is a brief, simple but complete guide for college electricity and magnetism. Learn from worked examples for each and every major equation. Start each topic simply and build an understanding of the connections between facts. Get readable guidance about the essential concepts so you choose the right equation. *To the Professor*: The college-level electricity and magnetism course without calculus covers a wide range of topics: the forces and energy associated with charges, currents, electric and magnetic fields, waves, and circuits. Laboratory work accompanying *Simply Good Physics 2* can begin immediately to explore circuits, circuit elements, and power produced by electrical currents. This book emphasizes problem solving in the theoretical topics as well as a practical understanding of the concepts behind practical devices. Students find it light enough to carry with them, brief enough to read your assignments, and

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**College Physics** Paul Peter Urone, Roger Hinrichs, 2018-01-05 This is part two of two for College Physics This book covers chapters 18-34 Please note The text and images in this textbook are grayscale and the format size has been reduced from 8.5 x 11 to 7.44 x 9.69 This introductory algebra based two semester college physics book is grounded with real world examples illustrations and explanations to help students grasp key fundamental physics concepts College Physics includes learning objectives concept questions links to labs and simulations and ample practice opportunities to solve traditional physics application problems

**AP Physics 2 Class Notes** Luke McCarthy, Jeff Bigler, 2016-09-05 Authored by Mr Bigler This book is a set of class notes for AP Physics 2 Algebra based The descriptions are intended to be more complete than students or teachers notes but less than a full textbook The notes may be used either to supplement a regular textbook or in place of one

The Best Test Preparation for the SAT II, Subject Test Research and Education Association, D. K. Bross, M. H. Farmer, M. L. Lemley, L. Weathers, 1991-09-24 Master the SAT II Physics Subject Test and score higher Our test experts show you the right way to prepare for this important college exam REA's SAT II Physics Subject test prep covers all Physics topics to appear on the actual exam including in depth coverage of vectors kinetic theory mechanics magnetism and more The book features 5 full length practice SAT II Physics exams Each practice exam question is fully explained to help you better understand the subject material Use the book's glossary for speedy look ups and smarter searches Follow up your study with REA's proven test taking strategies powerhouse drills and study schedule that get you ready for test day

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**Fundamentals of Physics II** R. Shankar,2016-01-01 Explains the fundamental concepts of Newtonian mechanics special relativity waves fluids thermodynamics and statistical mechanics Provides an introduction for college level students of physics chemistry and engineering for AP Physics students and for general readers interested in advances in the sciences In volume II Shankar explains essential concepts including electromagnetism optics and quantum mechanics The book begins at the simplest level develops the basics and reinforces fundamentals ensuring a solid foundation in the principles and methods of physics

**University Physics** Samuel J. Ling,Jeff Sanny,William Moebs,2017-12-19 University Physics is designed for the two or three semester calculus based physics course The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics science or engineering The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them Due to the comprehensive nature of the material we are offering the book in three volumes for flexibility and efficiency Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two and three semester physics courses nationwide We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject With this objective in mind the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts building upon what students have already learned and emphasizing connections between topics and between theory and applications The goal of each section is to enable students not just to recognize concepts but to work with them in ways that will be useful in later courses and future careers The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project

VOLUME II Unit 1 Thermodynamics Chapter 1 Temperature and Heat Chapter 2 The Kinetic Theory of Gases Chapter 3 The First Law of Thermodynamics Chapter 4 The Second Law of Thermodynamics Unit 2 Electricity and Magnetism Chapter 5 Electric Charges and Fields Chapter 6 Gauss's Law Chapter 7 Electric Potential Chapter 8 Capacitance Chapter 9 Current and Resistance Chapter 10 Direct Current Circuits Chapter 11 Magnetic Forces and Fields Chapter 12 Sources of Magnetic Fields Chapter 13 Electromagnetic Induction Chapter 14 Inductance Chapter 15 Alternating Current Circuits Chapter 16 Electromagnetic

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