

PHYSICS 1 FINAL REVIEW

Newton's Laws - FORCE DIAGRAMS



Force Diagram with coordinate system



Units of Force:

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

Static vs. Kinetic friction:

Static: object is not moving

$$F_{static} = \mu_s F_N$$

$$\text{Kinetic: } F_f = \mu_k F_N$$

Conditions for Static Equilibrium:

$$(i) \sum \vec{F} = 0 \quad (ii) \sum \vec{\tau} = 0$$

Torque Force Diagram:



Circular Motion Diagram:



Circular motion @ Top & Bottom of trajectory:



Conservation of Energy:

$$KE_i + PE_i = KE_f + PE_f + W_{nc}$$

conservation of Energy rollercoaster Example:



Elastic Potential Energy - SPRINGS



Power:

The rate at which forces do work

$$P = \frac{\Delta E}{t}$$

Efficiency:

How much waste

KINEMATICS / MECHANICS

work Done by conservative forces:

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

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

Density:

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

Specific Gravity:

Density of substance
Density of H2O @ 40°C
1000 kg/m³
units: $\frac{kg}{m^3} = Pa$

Pressure:

$$P = \frac{F_A}{A} \quad \text{pressure is surface}$$

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 perpendicular to the surface it is doing work

Pressure Varies with Depth:

$$P = \frac{F}{A} = \frac{mg}{A} = \rho gh$$

Gauge Pressure:

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

Atmospheric Pressure:

Sea level: 1 atm = 1.013 x 10^5 N/m² = 101.3 kPa

Pascal's Principle:

$$P_{in} = P_{out}$$

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

Physics 2 Topics

Luke McCarthy, Jeff Bigler



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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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

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

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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

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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.createspace.com/4525803> This textbook along with vol I 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 for other titles

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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 DETAILS Comprehensive review of every physics topic to appear on the SAT II subject test Flexible study schedule tailored to your needs Packed with proven test tips strategies and advice to help you master the test 5 full length practice SAT II Physics Subject exams Each exam question is answered in complete detail with easy to follow easy to grasp explanations The book's glossary allows for quicker smarter searches of the information you need most TABLE OF CONTENTS ABOUT THE TEST ABOUT THE REVIEW SCORING THE TEST ABOUT RESEARCH electricity and magnetism 22 26% waves 15 19% heat kinetic theory and thermodynamics 8 12% modern physics 8 12% miscellaneous measurement math skills laboratory skills history of physics 2 4% Concept application percentages are also provided recall 20 33% single concept problem 40 53% multiple concept problem 20 33% Primarily the test assesses your knowledge and understanding of the most significant concepts in physics and your ability to apply that knowledge Laboratory experience will contribute to your understanding of some of the questions on the test Since the mathematical calculations are limited to simple algebraic trigonometric and graphical relationships students are not permitted to use electronic calculators or slide rules during the test For the majority of the test metric units are used For information on upcoming administrations of the exam consult the publication Taking the SAT II Subject Tests which can be obtained from your guidance counselor or by contacting College Board SAT II Program P O Box 6200 Princeton NJ 08541 6200 Phone 609 771 7600 Website www.collegeboard.org ABOUT THE REVIEW The topical review

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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.

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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.

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