

**SPEED:** If constant speed, use  $v = \frac{d}{t}$

$$v = u + at$$

$$v^2 = u^2 + 2as$$

$$s = \frac{uv}{a}$$

$$s = ut + \frac{1}{2}at^2$$

WHERE:

$u$  = initial speed ( $\text{ms}^{-1}$ )

$v$  = final speed ( $\text{ms}^{-1}$ )

$s$  = displacement (m)

$t$  = time (seconds)

$a$  = acceleration ( $\text{ms}^{-2}$ )

**Avg ACCELERATION:**

$$a = \frac{v - u}{t}$$

**KMH<sup>-1</sup> TO MS<sup>-2</sup>:**

$\times$  by 3.6

**MS<sup>-2</sup> TO KMH<sup>-1</sup>:**

$\times$  by 3.6

**KM TO M:**

$\times$  by 1000

**M TO KM:**

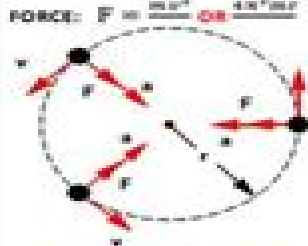
$\div$  by 1000

### CIRCULAR MOTION

**SPEED:**  $v = \frac{d}{t}$  OR  $v = \frac{2\pi r}{T}$  OR  $v = \sqrt{ar}$

**ACCELERATION:**  $a = \frac{v^2}{r}$  OR  $\frac{4\pi^2}{T^2}$

**FORCE:**  $F = \frac{mv^2}{r}$  OR  $\frac{4\pi^2 mr}{T^2}$



### VERTICAL CIRCULAR MOTION:

Forces at top: If at minimum speed, no normal force, so feel weightless! If above minimum speed, total force (centripetal force) is made of a downward gravity and a downward normal:

$$\Sigma F = N + mg = \frac{mv^2}{r}$$

Forces at bottom: Centripetal force (towards center/upwards) is made of a downwards gravity force and a BIGGER upwards normal force. You feel heavier!  $\Sigma F = N - mg = \frac{mv^2}{r}$

Minimum Speed at top:  $v = \sqrt{rg}$

### BALL ON A STRING

Radius of path  $r = 1.5 \text{ m}$  and

Circumference of path =  $2\pi r$

Forces are the towards the center, except tension instead of reaction/normal force.

Tension:  $F = mg/\cos\theta$

Vertical force =  $50\cos\theta$

Speed =  $\sqrt{rg\tan\theta}$

Speed if given length =  $\sqrt{Lg\sin\theta \tan\theta}$

Angle =  $\tan^{-1}(\frac{v^2}{rg})$

### INCLINED PLANES

TO FIND R (NORMAL FORCE):  $R = mg\cos\theta$

TO FIND IF (FORCE DOWN PLANE) (WITH GRAVITY):  $\Sigma F = mg\sin\theta$

TO FIND ACCELERATION WITH NO FRICTION:

$$a = g\sin\theta$$

### BANKED TRACKS

$$\tan\theta = \frac{v^2}{rg}$$

$$F_{\text{NET}} = \frac{mv^2}{r}$$

$$\text{Force} = \dots = \frac{mv^2}{r}$$

### ENERGY

**KINETIC ENERGY:**  $EK = \frac{1}{2}mv^2$

**GRAVITATIONAL POTENTIAL ENERGY:**  $GPE = mgh$

**TOTAL MECHANICAL ENERGY:**  $GPE + EK = EPE$

**DETERMINING INELASTIC/ELASTIC COLLISIONS:**

1: Calculate EK initial by adding the EK of object one with object two 2: Calculate EK final by using the combined mass of the system & combined speed (found using  $v = u/m$ ) 3: If the same = elastic, different = inelastic

Average force if momentum is known:  $F = \frac{\Delta p}{\Delta t}$

### SPRINGS

**HOOKE'S LAW:**  $F = k\Delta x$

**SPRING ENERGY:**  $\frac{1}{2}k\Delta x^2$

$k$  = gradient of a force vs distance graph.

Example: Show that the spring constant is  $5 \text{ Nm}^{-1}$

Use  $F = k\Delta x$  & rearrange to find  $k$ .

Example: Find the extension of the spring at the lowest point of oscillation.

Use GPE ( $1/2kx^2$ ) and find  $x$ .

Speed:  $\frac{mv^2}{r}$

Greater  $k$  value = stiffer spring

### WORK

The product of the applied force & the displacement in the direction of the force.  $W = F\cos\theta \Delta x$  OR  $W = \Delta E$



The rate at which work is done.  $P = \frac{\text{work done}}{\text{time taken}} = \frac{W}{t}$

### NEWTON'S LAWS

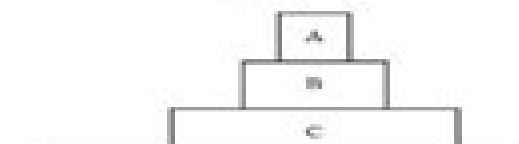
1<sup>st</sup> LAW: If an object has 0 net force acting on it, it will either remain at rest or continue going with a constant velocity

2<sup>nd</sup> LAW:  $F = ma$

3<sup>rd</sup> LAW: For every action, there is an equal and opposite reaction

### FORCES

100g blocks, A (0.050 kg), B (0.10 kg) and C (0.20 kg)



Force of A on B = 0.5N

Force of B on C = 1.5N (A and B together)

Force of C on ground = 3.5N (A, B and C together)



### RADIUS & ORBIT

**RADIUS:** Height + radius of Earth

**SPEED:**  $v = \frac{2\pi r}{T}$

**TIME PERIOD (seconds):**  $T = \sqrt{\frac{4\pi^2 r^3}{GM}}$  IF GEOSTATIONARY

**SATELLITE TIME = 86400s**

**RADIUS OF ORBIT (meters):**  $r = \sqrt[3]{\left(\frac{GMT^2}{4\pi^2}\right)}$

**STRENGTH OF GRAVITY:**  $g = \frac{GM}{r^2}$

**GRAVITATIONAL FORCE:**  $F = \frac{GMm}{r^2}$

**ACCELERATION:**  $a = \frac{v^2}{r}$  OR  $a = \frac{4\pi^2}{T^2}$

### APPARENT WEIGHTLESSNESS

Apparent weightlessness is achieved when an object falls with an acceleration equal to the gravitational field strength, as no normal reaction force is experienced. For example, astronauts in a satellite in stable orbit will feel weightless as the satellite is in constant free-fall. True weightlessness when  $g=0 \text{ N/kg}$  usually in deep space.

$E < E_c$  heavier,  $E > E_c$  lighter.

### APPARENT WEIGHT (NORMAL FORCE)

Going up:  $F = mg - a$ , Going down:  $F = m(g + a)$

### PROJECTILE MOTION

**HORIZONTAL COMPONENT:** Usually no acceleration, so use  $a = 0$

To find initial speed, use  $u_x = v \sin(\theta)$

**VERTICAL COMPONENT:** Has acceleration, so use equation of motion

To find initial speed, use  $u_y = v \cos(\theta)$

$\tan(\theta) = \frac{\text{vertical speed}}{\text{horizontal speed}}$

**EXAMPLE:** A batsman hits a cricket ball (from ground level) at a speed of  $30.0 \text{ ms}^{-1}$  and at an angle of  $36.9^\circ$  to the horizontal. An advertising board is placed on the boundary of the cricket ground at a distance  $72.0 \text{ m}$  from the batsman. Air resistance can be ignored. At what height above the ground will the ball strike the advertising board?

Remember that it will take the same time to go up as to come down (if air resistance can be ignored).

Horizontal motion:

$$u_x = v \sin(\theta)$$

$$u_x = 30 \sin(36.9) = 24 \text{ ms}^{-1}$$

Using  $x = ut$ ,  $t = \frac{x}{u} = 3s$

Vertical motion:

$$u_y = v \cos(\theta)$$

$$u_y = 30 \cos(36.9) = 18 \text{ ms}^{-1}$$

Using  $x = ut + \frac{1}{2}at^2$

$$x = 18 \times 3 + \frac{1}{2} \times (-10) \times 3^2$$

$$x = 54 - 45 = 9 \text{ m}$$

**EXAMPLE:** A car is discovered at the bottom of a  $72 \text{ m}$  cliff. How fast was the car going if it landed  $22 \text{ m}$  horizontally from the cliff's edge? (Note that the cliff is flat, i.e. the car came off the cliff horizontally).

First find the time it takes for the car to reach the bottom of the cliff.

(Vertical motion)

$$x = ut + \frac{1}{2}at^2$$

$$72 = 0 + \frac{1}{2} \times 10t^2$$

$$72 = 5t^2, t^2 = \frac{72}{5}$$

$$t = \pm 3.7 \text{ s}$$

Since time cannot be negative the answer is  $3.7 \text{ s}$ .

FOR SYMMETRICAL FLIGHT:

$$R \text{ AND } F = \frac{u^2 \sin 2\theta}{g}$$

# Conceptual Physics Chapter 9 Check Concepts

**Arturo Cuomo**



## **Conceptual Physics Chapter 9 Check Concepts:**

**Rasch Measurement** Myint Swe Khine, 2020-01-01 This book focuses on the use of the Rasch measurement model in validation studies and in analyzing the psychometric properties of a variety of test instruments questionnaires and scales in international contexts It broadly examines the development and application of Rasch modeling providing in depth analyses of the properties of various scales used in the fields of education and humanities and social sciences research The book includes exemplary works on educational research and practices that highlight recent and innovative applications as well as theoretical and practical aspects of Rasch modeling Readers will find it helpful to understand the latest approaches to Rasch measurement in educational research as well as practices for future studies and quantitative research This book provides a diverse set of perspectives on Rasch models from scholars across the globe The volume is both theoretical and applied The first section of the book provides an overview of Rasch modeling and explains the theoretical and conceptual framework underlying the Rasch model The remainder of the book highlights multiple applications of the Rasch model within educational assessment as well as several examples of how Rasch modeling can be used for validation studies This volume showcases the wide variety of ways in which Rasch modeling can be applied to assessment data to provide insights into students achievement and learning and to improve instruction Betsy McCoach University of Connecticut USA A well written collection of articles Grouped by the theoretical and applied aspects of Rasch measurement each chapter in this edited volume makes notable contributions to knowledge and practice Written by leading scholars in the field these chapters were written in a clear succinct and assertive manner providing readers with up to date information analyses and debates This book should be found in the core collection of emerging researchers and established scholars in educational measurement Timothy Teo Murdoch University Australia

**A Mathematician's Search for Technologies of Understanding the Universe** Helen Thrift, Yuri Stropovskiy, Francisco Bulnes, 2020-07-24 This book details the academic life of a mathematics researcher and nanotechnologist searching for modern technologies that can establish the survival of man in the universe It discusses the struggles of academics to defend the scientific truth against the power and the interests of the wealthy In doing so it also considers diverse philosophical pronouncements realised from mathematical perspectives and their universal application in other sciences and engineering fields

**The Concept of Argument** Harald R. Wohlrapp, 2014-06-26 Arguing that our attachment to Aristotelian modes of discourse makes a revision of their conceptual foundations long overdue the author proposes the consideration of unacknowledged factors that play a central role in argument itself These are in particular the subjective imprint and the dynamics of argumentation Their inclusion in a four dimensional framework subjective objective structural procedural and the focus on thesis validity allow for a more realistic view of our discourse practice Exhaustive analyses of fascinating historical and contemporary arguments are provided These range from Columbus's advocacy of the Western Passage to India over the trial of King Louis XVI during the French Revolution to today's highly

charged controversies surrounding euthanasia and embryo research Excavating foundational issues such as the purpose of argument itself assent of an audience or critical examination of validity claims and the contested role of argument as a generator of knowledge the book culminates in a discussion of the relationship between rationality and reasonableness and criticizes the restrictions of rational argument relying on fixed logical economic or cultural criteria that in reality are mutable Here a true open argument requires the infusion of Paul Lorenzen's principle of transsubjectivity which recognizes but transcends the partiality of the individual and which can be seen in the pragmatic and expanding consensus that humanity can control itself to safeguard the future of a fragile damaged world **In Search of Reality** B. D'Espagnat, 2012-12-06

When I take up a new book I always read its conclusions first For I have discovered that even difficult books have conclusions that are easy to read and that give a first idea of their content Of course I expect my readers to do this also Indeed the present book offers them an opportunity for generalizing the method After having gone over chapter 14 they should preferably look through chapters 5 2 13 and 10 or at least some of these in this or in other orders before engaging into any thorough reading The point is that at appropriate places in other chapters the reader will find proofs and as we all know all the proofs that are worth something are unavoidably ponderous Of course it is good to have them but again the most suitable procedure not to lose interest in their development is I think to first provisionally grant their conclusions in order to see where they lead us to Then to study the proofs once we have been convinced that the goal is worth some effort This is the reason why I suggest that at least chapters 4 and 11 should on a first reading be skipped at any rate by the poets The problem a new approach of which is described in chapter 4 did not come to light at least in its present form before 1964 The first experimental investigations bearing on it date back from the seventies *American Journal of Physics* ,2007

**Databases** Susanne M. Humphrey, Biagio John Melloni, 1986 **Resources in education** ,1988-08 *Prealgebra* K. Elayn Martin-Gay, 2003-12 Elayn Martin Gay believes every student can succeed and that is the motivating force behind her best selling texts and acclaimed video program With Martin Gay you get 100% consistency in voice from text to video Prealgebra 5e is appropriate for a 1 sem course in Prealgebra and was written to help students effectively make the transition from arithmetic to algebra To reach this goal Martin Gay introduces algebraic concepts early and repeats them as she treats traditional arithmetic topics thus laying the groundwork for the next algebra course your students will take

**Research in Education** ,1974 Physics Art Hobson, 2007 For a one semester course in liberal arts physics Hobson has four unifying themes How do we know the significance of post Newtonian physics modern physics energy and the social context of physics These themes become evident in the writing and pedagogy throughout the fourth edition **Glencoe Earth Science** Ralph M. Feather, 1999 Earth science is the study of Earth and space It is the study of such things as the transfer of energy in Earth's atmosphere the evolution of landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science in this book is divided

into four specific areas of study geology meteorology astronomy and oceanography p 8 9 **From Physical Concept to Mathematical Structure** Lynn E. H. Trainor, Mark B. Wise, 1979 Sparknotes SAT, 2005 The SAT II Subject Tests are created and administered by the College Board and the Educational Testing Service ETS the two organizations responsible for the dreaded SAT The SAT Subject Tests were created to act as complements to the SAT Whereas the SAT tests your critical thinking skills by asking math and verbal questions the SAT Subject Tests examine your knowledge of a particular subject such as Physics U S History or Biology The SAT takes three hours the Subject Tests take only one hour each

Inquiry Into Physics Vernon J. Ostdiek, 1999-10 *El-Hi Textbooks and Serials in Print*, 2003 **Calculus, Single Variable** Deborah Hughes-Hallett, 2001-07-13 The new edition exhibits the same strengths from earlier editions including the Rule of Four an emphasis on modeling exposition that students can read and understand and a flexible approach to technology The conceptual and modeling problems praised for their creativity and variety continue to motivate and challenge students *The Elements of Intellectual Science* Noah Porter, 1890 **Physics** John D. Cutnell, Kenneth W. Johnson, 2001 Take flight with these powerful study tools Through four popular editions Cutnell Johnson s PHYSICS has helped thousands of students understand fundamental physics principles while honing their problem solving skills But the authors commitment to helping you get the best grade possible doesn t stop with the text itself They ve developed a powerful array of study tools that will give you an extra advantage in your physics class Interactive LearningWare on the Student Web Site will deepen your conceptual understanding of the material This new on line tutorial will help you through 60 interactive problems Student Web Site [www.wiley.com/college/cutnell](http://www.wiley.com/college/cutnell) contains solutions to selected end of chapter problems and provides access to the Interactive LearningWare Student Study Guide features a hands on guidebook filled with a variety of tips and suggestions plus Interactive LearningWare tutorials and links to other tutorial physics sites ISBN 0 471 35582 8 Student Solutions Manual contains detailed step by step solutions to half of the odd numbered end of chapter problems in the text These solutions will show you the best ways to solve physics problems and help you develop strong problem solving skills ISBN 0 471 35583 6 Cutnell Multimedia 2 0 is a CD ROM containing the entire text Student Study Guide Student Solutions Manual Interactive LearningWare and numerous simulations all connected by hyperlinks ISBN 0 471 37817 8 Take Note reproduces key artwork from the text so you can concentrate on taking notes without having to sketch images in class ISBN 0 471 38850 5 [www.wiley.com/college/cutnell](http://www.wiley.com/college/cutnell) strong **Adventures in Experimental Physics**, 1974 A selection of papers and personal discovery stories dealing with innovative unconventional adventurous experimentation How to Prepare for the GED High School Equivalency Exam Murray Rockowitz, Brownstein, Max Peters, Bolton, 2001 Provides full length practice exams with answers and explanations and includes reviews of all test areas from writing skills to science

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