

Gravity and the Inverse Square Law

Gravity is a great real life application of the [inverse \(indirect\) square law](#), or, "y is inversely proportional to the square of x". The gravity field of a body (comet, planet, star etc) is inversely proportional to the distance from the centre of the body squared. As an equation this is:

$$g \propto \frac{1}{r^2} \quad \Rightarrow \quad g = \frac{k}{r^2}$$

Where:

g = gravity field of a body (acceleration due to gravity in ms^{-2})

r = distance from centre of the body (in m)

Task 1

For each of the bodies listed below, use the figures for surface gravity and radius to find equations for their gravity fields. (Expect large k values!):

Planet	Mercury	Venus	Earth	Mars	Jupiter	Saturn	Uranus	Neptune	Pluto*
Surface Gravity (ms^{-2})	3.7	8.87	9.81	3.69	24.79	3.69	8.69	11.15	0.81
Radius (1000m)	2,439	6,051	6,378	3,396	71,492	60,268	25,550	24,764	1,151

*Pluto is no longer called a planet but rather a "[dwarf planet](#)". Nevertheless it is still a body with a gravity field that obeys the inverse square law.

You could also try this for the Moon (surface gravity= 1.622ms^{-2} , radius= $1,738,140\text{m}$) or the Sun (surface gravity= 274ms^{-2} , radius= $6.955 \times 10^8\text{m}$).

Task 2 - The constant k.

In each of your equations the constant k actually represents the mass (m) of each planet multiplied by the [gravitational constant](#) (G), as discovered by [Sir Isaac Newton](#). As an equation this is:

$$k = Gm \quad \text{and hence} \quad g = \frac{Gm}{r^2}$$

The gravitational constant is a very small number measured in Newtons or kgms^{-2} :

$$G = 6.674 \times 10^{-11}$$

Gravity Inverse Square Law Problems Answer Key

Vincent Wilmot



Gravity Inverse Square Law Problems Answer Key:

High Pt Physics at Hadron Colliders Dan Green,2005 Publisher Description **Scientific and Technical Aerospace Reports** ,1990 *The Ballet of the Planets* Donald Benson,2012-05-11 The Ballet of the Planets unravels the beautiful mystery of planetary motion revealing how our understanding of astronomy evolved from Archimedes and Ptolemy to Copernicus Kepler and Newton Mathematician Donald Benson shows that ancient theories of planetary motion were based on the assumptions that the Earth was the center of the universe and the planets moved in a uniform circular motion Since ancient astronomers noted that occasionally a planet would exhibit retrograde motion would seem to reverse its direction and move briefly westward they concluded that the planets moved in epicyclic curves circles with smaller interior loops similar to the patterns of a child s Spirograph With the coming of the Copernican revolution the retrograde motion was seen to be apparent rather than real leading to the idea that the planets moved in ellipses This laid the ground for Newton s great achievement integrating the concepts of astronomy and mechanics which revealed not only how the planets moved but also why Throughout Benson focuses on naked eye astronomy which makes it easy for the novice to grasp the work of these pioneers of astronomy **Zero To Infinity: The Foundations Of Physics** Peter Rowlands,2007-10-17 Unique in its field this book uses a methodology that is entirely new creating the simplest and most abstract foundations for physics to date The author proposes a fundamental description of process in a universal computational rewrite system leading to an irreducible form of relativistic quantum mechanics from a single operator This is not only simpler and more fundamental but also seemingly more powerful than any other quantum mechanics formalism available The methodology finds immediate applications in particle physics theoretical physics and theoretical computing In addition taking the rewrite structure more generally as a description of process the book shows how it can be applied to large scale structures beyond the realm of fundamental physics *The Three-body Problem from Pythagoras to Hawking* Mauri Valtonen,Joanna Anosova,Konstantin Kholshevnikov,Aleksandr Mylläri,Victor Orlov,Kiyotaka Tanikawa,2016-05-03 This book written for a general readership reviews and explains the three body problem in historical context reaching to latest developments in computational physics and gravitation theory The three body problem is one of the oldest problems in science and it is most relevant even in today s physics and astronomy The long history of the problem from Pythagoras to Hawking parallels the evolution of ideas about our physical universe with a particular emphasis on understanding gravity and how it operates between astronomical bodies The oldest astronomical three body problem is the question how and when the moon and the sun line up with the earth to produce eclipses Once the universal gravitation was discovered by Newton it became immediately a problem to understand why these three bodies form a stable system in spite of the pull exerted from one to the other In fact it was a big question whether this system is stable at all in the long run Leading mathematicians attacked this problem over more than two centuries without arriving at a definite answer The introduction of computers in the last half a century has revolutionized the

study now many answers have been found while new questions about the three body problem have sprung up One of the most recent developments has been in the treatment of the problem in Einstein's General Relativity the new theory of gravitation which is an improvement on Newton's theory Now it is possible to solve the problem for three black holes and to test one of the most fundamental theorems of black hole physics the no hair theorem due to Hawking and his co-workers

TYPE-ALEPH UNIVERSES AND INSIGHTS INTO MULTIVERSAL DYNAMICS Karim Mokhtar,2024-12-02 What governs the structure and diversity of the multiverse Type Aleph Universes Multiversal Dynamics introduces Helmas Theory a framework in which higher dimensional structures project the space time and abstract dimensions that define each universe These Type Aleph universes interact through dark space a medium where phenomena like dimensional overlay and dark motion reveal connections beyond conventional space time Blending rigorous mathematics with theoretical physics this book offers an academic exploration of the multiverse addressing the emergent properties of dimensions and phenomena such as dark energy and quantum behavior Ideal for researchers and theorists it redefines the boundaries of cosmology and dimensional science

A Mathematical Bridge Stephen Fletcher Hewson,2009 Although higher mathematics is beautiful natural and interconnected to the uninitiated it can feel like an arbitrary mass of disconnected technical definitions symbols theorems and methods An intellectual gulf needs to be crossed before a true deep appreciation of mathematics can develop This book bridges this mathematical gap It focuses on the process of discovery as much as the content leading the reader to a clear intuitive understanding of how and why mathematics exists in the way it does The narrative does not evolve along traditional subject lines each topic develops from its simplest intuitive starting point complexity develops naturally via questions and extensions Throughout the book includes levels of explanation discussion and passion rarely seen in traditional textbooks The choice of material is similarly rich ranging from number theory and the nature of mathematical thought to quantum mechanics and the history of mathematics It rounds off with a selection of thought provoking and stimulating exercises for the reader

Literature 1987, Part 2 U. Esser,H. Hefele,I. Heinrich,W. Hofmann,D. Krahn,V. R. Matas,L. D. Schmadel,G. Zech,2013-11-11 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 44 records literature published in 1987 and received before February 15 1988 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Dr Siegfried B hme retired from his duties as co editor of Astronomy and Astrophysics Abstracts on December 31 1987 Since 1950 he participated in the bibliographic work of the

institute He served as a reviewer for the *Astronomischer Jahresbericht* and became one of the editors of *Astronomy and Astrophysics Abstracts* in 1969 After his retirement in 1975 he took care of particularly the Russian literature on a voluntary basis for 12 years It is a pleasure to thank Siegfried B hme for his valuable contributions Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Christiane Jehn Ms Monika Kohl Ms *Sleeping Beauties in Theoretical Physics* Thanu Padmanabhan,2015-02-17 This book addresses a fascinating set of questions in theoretical physics which will both entertain and enlighten all students teachers and researchers and other physics aficionados These range from Newtonian mechanics to quantum field theory and cover several puzzling issues that do not appear in standard textbooks Some topics cover conceptual conundrums the solutions to which lead to surprising insights some correct popular misconceptions in the textbook discussion of certain topics others illustrate deep connections between apparently unconnected domains of theoretical physics and a few provide remarkably simple derivations of results which are not often appreciated The connoisseur of theoretical physics will enjoy a feast of pleasant surprises skilfully prepared by an internationally acclaimed theoretical physicist Each topic is introduced with proper background discussion and special effort is taken to make the discussion self contained clear and comprehensible to anyone with an undergraduate education in physics

Mathematical Analysis of Evolution, Information, and Complexity Wolfgang Arendt,Wolfgang P. Schleich,2009-07-10 Mathematical Analysis of Evolution Information and Complexity deals with the analysis of evolution information and complexity The time evolution of systems or processes is a central question in science this text covers a broad range of problems including diffusion processes neuronal networks quantum theory and cosmology Bringing together a wide collection of research in mathematics information theory physics and other scientific and technical areas this new title offers elementary and thus easily accessible introductions to the various fields of research addressed in the book *Reihe C--Dissertationen* ,1997 **New Science Theory** Vincent Wilmot,2011-02 New Science Theory by Vincent Wilmot is basically the New Science Theory com website as on 6 April 2022 for any changes since then visit the site where its Sitemap notes any updates Especially good for those interested in physics and physics history it concentrates chiefly on the four great physicists Albert Einstein Isaac Newton Rene Descartes and William Gilbert Also here are fine sections covering Galileo Kepler Tesla History of Science Philosophy of Science Information Physics Gravity Light Standard Model String Theory Probability Science and General Image Theory **New Science Theory and On The Magnet** Vincent Wilmot,William Gilbert,2015-07-22 The first book is basically the New Science Theory com site as on 1 January 2018 for changes since then visit the website with its Sitemap noting updates It is especially good for those interested in physics theory concentrating chiefly on the four great physicists William Gilbert Rene Descartes Isaac Newton and Albert Einstein and also having fine sections on Galileo Kepler History of Science Gravity Light String Theory Standard Model Physics Probability Science

Philosophy of Science and General Image Theory Science The second book is a new improved English translation of William Gilbert's banned Latin 1600 *De Magnete* or *On The Magnet* This is rather easier to read than its two earlier translations and significantly helps to clarify Gilbert's attraction physics which Newton put as one of the two mathematized physics options and which he is believed to have privately favoured It is basically a novel signal response or remote control physics that may still have relevance

Invisible Solar System Martin Connors, 2024-02-12 When we look at a starry night sky we are looking out through vast invisible expanses of our own Solar System The planets appearing as bright specks have been revealed as worlds by space missions However the invisible spaces between them are equally interesting Unseen forces such as the effect of gravity spiraling magnetic fields and subatomic particles originate from the Sun Celestial bodies too small to see form unexpected patterns while atoms and nuclei are hidden even if in our own bodies Weaving the history of discovery with clear explanations *Invisible Solar System* pulls back the cloak of invisibility under which myriad aspects of the local region of space are connected Features Gravity originally seen as an invisible force is now revealed as a curvature of spacetime and even in its simple form enables amazing patterns to form The smallest particles have other structures that enable them to interact powering the present Solar System while also giving clues to nuclear events past and present Long range forces of electricity and magnetism connect the Sun and planets dominating the hot plasma gas of space while protecting us from cosmic rays via multiple layers of magnetic shields

[Quantum Gravity and the Standard Model](#) Nigel Cook, **Mathematical Thought From Ancient to Modern Times, Volume 2** Morris Kline, 1990-03-01 This comprehensive history traces the development of mathematical ideas and the careers of the men responsible for them Volume 1 looks at the disciplines origins in Babylon and Egypt the creation of geometry and trigonometry by the Greeks and the role of mathematics in the medieval and early modern periods Volume 2 focuses on calculus the rise of analysis in the 19th century and the number theories of Dedekind and Dirichlet The concluding volume covers the revival of projective geometry the emergence of abstract algebra the beginnings of topology and the influence of Godel on recent mathematical study

AP Physics 1 Premium, 2023: Comprehensive Review with 4 Practice Tests + an Online Timed Test Option Kenneth Rideout, Jonathan Wolf, 2022-08-02 Be prepared for exam day with Barron's Trusted content from AP experts Barron's AP Physics 1 Premium 2023 includes in depth content review and online practice It's the only book you'll need to be prepared for exam day Written by Experienced Educators Learn from Barron's all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips strategies and study advice for exam day it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 4 full length practice tests 2 in the book and 2 more online Strengthen your knowledge with in depth review covering all Units on the AP Physics 1 Exam Reinforce your learning with practice questions at the end of each chapter Online Practice Continue your practice with 2 full length practice tests on Barron's Online Learning Hub Simulate

the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice Gain confidence with scoring to check your learning progress **Gravity** Eric Poisson, Clifford M. Will, 2014-05-29 This textbook explores approximate solutions to general relativity and their consequences It offers a unique presentation of Einstein's theory by developing powerful methods that can be applied to astrophysical systems Beginning with a uniquely thorough treatment of Newtonian gravity the book develops post Newtonian and post Minkowskian approximation methods to obtain weak field solutions to the Einstein field equations The book explores the motion of self gravitating bodies the physics of gravitational waves and the impact of radiative losses on gravitating systems It concludes with a brief overview of alternative theories of gravity Ideal for graduate courses on general relativity and relativistic astrophysics the book examines real life applications such as planetary motion around the Sun the timing of binary pulsars and gravitational waves emitted by binary black holes Text boxes explore related topics and provide historical context and over 100 exercises present challenging tests of the material covered in the main text *AP Physics 1 Premium, 2024: 4 Practice Tests + Comprehensive Review + Online Practice* Kenneth Rideout, Jonathan Wolf, 2023-07-04 The 2024 edition is out of print and was for the May 2024 exam Always study with the most up to date prep Look for AP Physics 1 Premium 2025 Prep Book with 4 Practice Tests Comprehensive Review Online Practice ISBN 9781506291659 on sale December 3 2024 fully updated for the May 2025 exam Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product *Literature 1989, Part 1* Astronomisches Rechen-Institut, 2013-11-11 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Review Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine

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