Universal Gravitation Worksheet 4 The Law of Universal Gravitation

The equation for the Law of Universal Gravitation is

$$F = G \frac{m_1 m_2}{r^2}$$

Where F is the attractive force between masses m_1 and m_2 separated by distance r. G is the universal gravitational constant (and relates G to the masses and separation as the constant π similarly relates the circumference of a circle to its diameter). By substituting changes in any of the variables into this equation we can predict how the others change. For example, we can see how the force changes if we know how either or both of the masses changes, or how the separation between their centers changes.

Suppose, for example, that one of the masses is somehow doubled. Then substituting $2m_1$ for m_1 in the equation gives

$$F_{uv} = G \frac{2m_1m_2}{r^2} = 2 \left(G \frac{m_1m_2}{r^2} \right) = 2F_{udd}$$

Therefore the force also doubles. Suppose instead that the separation distance is doubled. Then substituting 2r for r in the equation gives

$$F_{\text{new}} = G \frac{2m_1 m_2}{(2r)^2} = G \frac{m_1 m_2}{4r^2} = \frac{1}{4} \left(G \frac{m_1 m_2}{r^2} \right) = \frac{1}{4} F_{\text{old}}$$

Hence the force is only 1/4 as much.

Use this method to solve the following problems. Write the equation and make the appropriate substitutions.

- 1. If both masses are doubled, what happens to the force?
- If the masses are not changed, but the distance of separation is reduced to ½ the original distance, what happens to the force?
- If both masses are doubled, and the distance of separation is doubled, show what happens to the force.



Conceptual Physics Universal Gravitation Packet Answers

John Clarke Slater

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S. Chand S Principles Of Physics For XI V. K Mehta & Rohit Mehta, The Present book S Chand s Principle of Physics is written primarily for the students preparing for CBSE Examination as per new Syllabus Simple language and systematic development of the subject matter Emphasis on concepts and clear mathematical derivations Study Guide for Physics in the Modern World 2E Jerry Marion, 2012-12-02 Study Guide for Physics in the Modern World 2E provides information pertinent to the fundamental concepts in physics This book presents a list of concepts definitions and equations with various supplementary exercises for the readers Comprised of 21 chapters this book starts with an overview of the standard units of measure for length time mass energy force pressure and density This text then provides the meaning of various terms in physics including atom molecule element and compound Other chapters explore the composition and behavior of all ordinary matter in which it depends on the four basic units including electrons protons neutrons and photons This book discusses as well the method used for converting the units of physical quantities from one system of measurement to another The final chapter deals with the various applications of radiation in biological investigations as well as in medical diagnostics and therapeutics This book is intended for students enrolled in introductory physics courses **Prentice Hall Physical Science** Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support Student Study Guide & Selected Solutions Manual David D. Reid, 2007 differentiated instruction A Standard Model Workbook Thomas A. Moore, 2023-12-11 This introduction to the Standard Model of particle physics provides students with a classroom tested workbook to optimize learning this material in student centered classes Developed to support a one semester upper level undergraduate or graduate course it includes hundreds of homework problems that will guide students to a clear understanding of this fascinating field A Standard Model Workbook provides upper level undergraduates a one semester introduction to the Standard Model of particle physics Its classroom tested workbook design offers multiple paths through the material consisting of short chapters that provide an overview of a topic followed by opportunities for students to work out the details for themselves concluding with homework problems to further develop students understanding of the concepts This allows students to truly own the materials by working through it and allows instructors to construct an active student centered class Topics include a review of special relativity and quantum mechanics the Lagrangian mechanics of fields some basic quantum field theory Feynman diagrams solutions to the Dirac equation the U 1 SU 2 and SU 3 symmetries and their implications for electrodynamics the electroweak theory and quantum chromodynamics renormalization the Higgs mechanism fermion and neutrino masses experimental tests and applications of the Standard Model and a look at

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