

Question:

Newton's Law of Universal Gravitation states that

- a. There is a force of gravitational attraction between all objects that have mass.
- b. The force of gravity can act both as an attraction and as a repulsion.
- c. Masses have the effect of distorting space-time in their vicinity.
- d. The force of gravity between two masses increases in direct proportion to the distance between them.
- e. The force of gravity between two masses increases in direct proportion to the square of the distance between them.

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Answer:

The correct answer is *a*. Newton's Law of Universal Gravitation, published in his groundbreaking *Philosophiae Naturalis Principia Mathematica* in 1687, is summarized in this mathematical expression:

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

The equation states that the Force of gravitational attraction between any two masses is dependent upon, and proportional to, the masses of the two objects, m_1 and m_2 . It is also inversely proportional to the square of the distance between the two objects, r .

It has been suggested that Newton stumbled upon the idea of an attractive Force between masses by considering the accelerations of an apple falling near the surface of the earth, and the centripetal acceleration of the moon as it “falls” toward the center of the earth that it circles. Even as he worked to develop a form of the expression above that satisfactorily offered evidence of the factors affecting gravitational attraction, Newton was uncomfortable with the idea that a gravitational force could act “at a distance” through space.

Conceptual Physics Universal Graviataion Answers

WANG JIANHUA



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new introduction to your environment 4th ed 1981

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Spears,Abigail Reid Mechtenberg,2008-05 Conceptual physics media update 10th ed will help you build a strong conceptual

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OF PLANETARY MOTION AND NEW FORMULA OF UNIVERSAL GRAVITATION WANG JIANHUA,2022-09-12 If the

solar system is regarded as a moving mass point system then both the planet m and the sun M move around the solar system

mass center O According to the motion law of the mass point system and the centripetal force formula of the curve it can be

determined through theoretical analysis and mathematical derivation 1 Kepler s law of planetary motion contradicts the

motion rules of mass point systems 2 The universal gravitational force F between planet m and sun M K is the new

gravitational constant The force F on the object m in the inertial frame S In the formula V is the velocity of the object m in

the inertial frame S and u is the velocity of the inertial frame S in the cosmic space reference frame In addition the author

designed three new optical experiments based on the light interference theory to verify whether the principle of constant

speed of light conforms to objective facts Experiment 1 Using the new front and rear hole laser interferometer for

verification Experiment 2 Verification of using long and short optical path Michelson interferometers Experiment 3

Verification of using a double hole interferometer **Physics** John D. Cutnell,Kenneth W. Johnson,David Young,Shane

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From Atoms to Galaxies Sadri Hassani, 2010-05-07 College students in the United States are becoming increasingly incapable of differentiating between proven facts delivered by scientific inquiry and the speculations of pseudoscience In an effort to help stem this disturbing trend From Atoms to Galaxies A Conceptual Physics Approach to Scientific Awareness teaches heightened scientific acuity a Texas School Journal ,1903 **Project Physics Course: Text and Handbook: Concepts of motion** Harvard Project Physics, 1970 **The Presbyterian and Reformed Review** Benjamin Breckinridge Warfield, 1902 Includes section Reviews of recent theological literature Introduction to Concepts and Theories in Physical Science Gerald James Holton, 1962 *The Concept of Evidence* Peter Achinstein, 1983 This anthology presents work on major topics surrounding the concept of evidence as employed in the empirical sciences Focusing on the classificatory concept of evidence rather than the quantitative degree of confirmation the selections include Carl G Hempel s satisfaction definition R B Braithwaite s hypothetic deductive view N R Hanson s account of retrodution Nelson Goodman s entrenchment theory probability definitions discussed by Rudolf Carnap and Wesley Salmon Clark Glymour s bootstrap theory and a view of Achinstein s that combines probability and explanation **Harcourt Science: Physical science, [grade] 5, Units E and F, teacher's ed** ,2000

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