

Name: _____

Date: _____

Student Exploration: Gravitational Force

Vocabulary: force, gravity, vector

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

On the night of a Full Moon, Mary decided to do an experiment with gravity. At midnight, she brings a black cat to the graveyard. She stands next to her favorite headstone, holds the cat in the air, and lets go. The cat falls to the ground, hisses at her, and runs away.

1. Why did the cat fall to Earth instead of rising up to the Moon? _____

2. Give two reasons why we feel Earth's gravity more strongly than the Moon's gravity.

Gizmo Warm-up

From black cats to apples, gravity causes nearly any object to fall to Earth's surface. Gravity also causes the Moon to orbit Earth and Earth and the other planets to orbit the Sun. The *Gravitational Force Gizmo™* allows you to explore the factors that influence the strength of gravitational force.



To begin, turn on the **Show force vector** checkboxes for objects A and B. The arrows coming from each object are ~~representations~~ that represent gravitational forces. The length of each vector is proportional to the force on each object.

1. Move object A around. As object A is moved, what do you notice about the direction of the two force vectors? _____
2. How do the lengths of the two vectors compare? _____
3. Drag object A closer to object B. How does this change the gravitational force between the two objects? _____

Answers To The Gravitational Force Gizmo

D. L. Herring



Answers To The Gravitational Force Gizmo:

New Scientist ,2007 **New Scientist and Science Journal** ,2007-10 **The Great Reflection** D. L.

Herring,2007-10-12 Many faithful Christians go weekly to church hear the word and read it for themselves Yet few realize the truths that go unnoticed just below the surface No I am not speaking of Bible codes The Bible has been described as a chest filled with treasures Some are old and comfortable while others are new and challenging Are you a seeker of truth Then dig into The Great Reflection **Physics Avoidance** Mark Wilson,2017-10-20 Mark Wilson presents a series of explorations of our strategies for understanding the world Physics avoidance refers to the fact that we frequently cannot reason about nature in the straightforward manner we anticipate but must seek alternative policies that allow us to address the questions we want answered in a tractable way Within both science and everyday life we find ourselves relying upon thought processes that reach useful answers in opaque and roundabout manners Conceptual innovators are often puzzled by the techniques they develop when they stumble across reasoning patterns that are easy to implement but difficult to justify But simple techniques frequently rest upon complex foundations a young magician learns how to execute a card guessing trick without understanding how its progressive steps squeeze in on a proper answer As we collectively improve our inferential skills in this gradually evolving manner we often wander into unfamiliar explanatory landscapes in which simple words encode physical information in complex and unanticipated ways Like our juvenile conjurer we fail to recognize the true strategic rationales underlying our achievements and may turn instead to preposterous rationalizations for our policies We have learned how to reach better conclusions in a more fruitful way but we remain baffled by our own successes At its best philosophical reflection illuminates the natural developmental processes that generate these confusions and explicates their complexities But current thinking within philosophy of science and language works to opposite effect by relying upon simplistic conceptions of cause law of nature possibility and reference that ignore the strategic complexities in which these concepts become entangled within real life usage To avoid these distortions better descriptive tools are wanted The nine new essays within this volume illustrate this need for finer discriminations through a range of revealing cases of both historical and contemporary significance Crimson Scimitar S.P. Grogan,2023-09-05 the awakening epic novel of our times A fast paced epic of suspense mysterious clue solving political intrigue terrorist plots of bombings and nuclear poisonings romantic entanglements of strong women a legal adventure of The Trial of the Century this is the historical thriller intertwined with actual events of 2011 and no holds barred critical commentary on Hollywood culture and social media The What if epic novel What if in 2011 Osama bin Laden the al Qaeda jihadist terrorist was captured instead of killed How would a trial in the U S judicial system look like And what if the ones who captured him were stars of a reality TV show trying to boost their ratings And what if when bin Laden was captured al Qaeda was planning an attack on the United States worse than 9 11 Who do you think will come to the rescue Finally would you cheer for a young al Qaeda jihadist who might bring peace to the Mideast

Dark Energy Philip J. Skerry, 2013-07-04 Alfred Hitchcock and the cinema grew up together Born in 1899 four years after the first official film showing in Paris Hitchcock demonstrated an early fascination with the new art of the cinema He entered the film industry in 1920 and by 1925 he had directed his first feature length film *The Pleasure Garden* His subsequent film career paralleled the phenomenal growth of the film industry during the years 1925 1976 the year of his last film In the same way Hitchcock's films are consonant with the revolutionary theories in the fields of physics and cosmology that were transforming the twentieth century personified by the genius of Albert Einstein Philip Skerry's book applies the theories of dark energy entropy black holes and quantum mechanics to Hitchcock's technological genius and camera aesthetics helping to explain the concept of pure cinema and providing verification for its remarkable power Including interviews with influential physicists this study opens up new ways of analyzing Hitchcock's art

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basics of what it takes to be a leader in a business context and the purpose of a leader in an organization. It also did it in a fun ... The Secret: What Great Leaders Know and Do “You don't have to be older to be a great leader. The Secret shows how to lay the foundation for powerful servant leadership early in your career to maximize ... Secret What Great Leaders by Blanchard Ken The Secret: What Great Leaders Know and Do by Blanchard, Ken; Miller, Mark and a great selection of related books, art and collectibles available now at ... The Secret: What Great Leaders Know and Do As practical as it is uplifting, The Secret shares Blanchard's and Miller's wisdom about leadership in a form that anyone can easily understand and implement. “The Secret” by Ken Blanchard and Mark Miller In this second edition of The Secret, Ken Blanchard teams up with Chick-fil-A Vice President Mark Miller to summarize “what great leaders know and do. 10 Secrets of What Great Leaders Know and Do Sep 5, 2014 — 1. An iceberg as a metaphor - Think of an iceberg. What is above the water line is what you can see in people. This is the “doing” part of ... The Secret: What Great Leaders Know -- And Do by Ken ... As practical as it is uplifting, The Secret shares Blanchard's and Miller's wisdom about leadership in a form that anyone can easily understand and implement. The secret : what great leaders know and do In this third edition, bestselling authors Ken Blanchard and Mark Miller answer the question most leaders ask at some point in their career: "What do I need ... Pilkey W. D. Peterson s Stress Concentration Factors 3rd ed Stress concentration factor K_t is a dimensionless factor that is used to qualify how concentrated the stress is in material. It is defin... Download Free PDF Peterson's Stress Concentration Factors | Wiley Online Books Dec 26, 2007 — Peterson's Stress Concentration Factors establishes and maintains a system of data classification for all of the applications of stress and ... PETERSON'S STRESS CONCENTRATION FACTORS Peterson's Stress Concentration Factors, Third Edition. Walter D. Pilkey and Deborah ... JOHN WILEY & SONS, INC. Page 3. This text is printed on acid-free paper. Peterson's Stress Concentration Factors, 3rd Edition Peterson's Stress Concentration Factors, 3rd Edition. Author / Uploaded; Froncaschi Otos. Views 932 Downloads 263 File size 32MB. Report DMCA / Copyright. Peterson's stress concentration factors - Z-Library Download Peterson's stress concentration factors book for free from Z-Library. Stress Concentration The elastic stress concentration factor K_t is the ratio of the maximum stress in the stress raiser to the nominal stress computed by the ordinary mechanics-of- ... Peterson's Stress Concentration Factors by Pilkey, Walter D. Filled with all of the latest developments in stress and strain analysis, this Fourth Edition presents stress concentration factors both graphically and with ... Stress Concentration Factors | PDF Chart 4.2 Stress concentration factors for the tension of a thin semi-infinite element with a circular hole near the edge (Mindlin 1948; Udoguti 1947; Isida ... Table A-15 Charts of Theoretical Stress-Concentration ... by A Figure · Cited by 4 — Source: R. E. Peterson, Stress-. Concentration Factors, Wiley,. New York, 1974, pp. 146, 235. The nominal bending stress is $\sigma_0 = M/Z_{net}$ where Z_{net} is a reduced. Peterson's Stress Concentration Factors, Third Edition Dec 13, 2023 — Peterson's Stress Concentration Factors establishes and maintains a system of data classification for all of the applications of stress and ... Italy Travel Guide by Rick Steves Explore Italy! Get

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