

Universal Gravitation

Earth's gravitational field is a varying vector, related to Earth's geometry and rotation (negative radially, radial, horizontal and tangential) with distance according to the following:

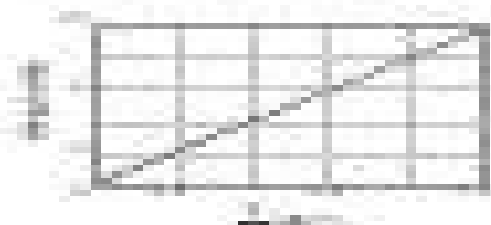
$$g = \frac{GM}{r^2}$$

where G is the gravitational constant, M is the mass of the object, and r is the distance from the center of the object.

As a vector, gravitational force, the acceleration of the field is directed by the geometry of the field. The gravitational field strength vector is directed radially inward, it is directed by the geometry of the field. The acceleration vector is directed radially inward, it is directed by the geometry of the field. The acceleration vector is directed radially inward, it is directed by the geometry of the field. The acceleration vector is directed radially inward, it is directed by the geometry of the field.



The graph shows that the gravitational field strength decreases as the distance from the center of the Earth increases. The curve is a hyperbola, showing that the field strength is inversely proportional to the square of the distance.



The graph shows that the gravitational field strength increases linearly with distance. This is a linear relationship, showing that the field strength is directly proportional to the distance.

Gravitational force would be greatest for the object that is closest to the center of the Earth, as the distance is smallest and the acceleration is greatest.

What is the gravitational field strength at a distance of 1000 km from the center of the Earth? (The Earth's radius is 6370 km.)

Study Guide Universal Gravitational Vocabulary Review

Rachel S Tattersall



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