

Universo-Geo-Physics

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Abstract: Gravity is a force of which all of us are aware. But is it possible that the reverse of gravity be true? Yes, there is an equal possibility of the reverse being true. It can be termed negative gravity.

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1. Introduction

In Gravity is a term which all is familiar of. Indian scientist Brahmagupta hinted at it in the ancient age. Later on, Sir Isaac Newton developed this concept on gravity.

Accordingly, gravity or gravitational force is that force which attracts anybody to the centre of the earth.

According to Newton each and every particle in the universe attracts every other particle which is directly proportional to the product of their masses and inversely proportional to the square of the straight line distance existing between them and this force acts along the straight line joining the 2 particles.

If m_1 and m_2 be the masses of 2 particles placed at a distance of r apart then the force acting between the 2 particles is $F = gm_1m_2 / r$ where g is the gravitational constant or universal constant of gravity and $g = 6.67 * 10^{-8} \text{ dynecm}^2/\text{gm}^2$.

Again, weight is the force by which it is attracted towards the centre of the earth.

During falling from a height under the action of gravity, a body acquires an acceleration called acceleration due to gravity. It is represented as g and $g = 9.81 \text{ m/s}^2$.

Negative gravity: When a body falls from a height, it actually remains in a position (static), where it may turn topsy – turvy until the earth's surface reaches and touches it. This is negative gravity.

The Earth is a heavy sphere of mass, so though it apparently seems to move along a curve line equal to its to its equatorial diameter of the earth but in reality it is slightly larger.



In support of this phenomenon the ball experiment has been done.

2. Ball Experiment

When a ball is kept on the floor and it is made to spin (the ball spins on a fixed axis) and 2 fingers are kept some distance away from the ball on its both sides (say, about 0.5 – 1 cm) then the ball is found to graze along the tips of those fingers very slightly.

Reason: Actually the dust particles on the surface of ball attract the ball on all its sides and cause this phenomenon. Also centrifugal force always causes an equatorial bulge and polar flattening for all spherical objects.

3. Apparent Body Movement

It is defined to be the apparent movement of a body due to which the body when is at a height from the surface of the earth, seems to fall on its surface.

In nuclear or atomic physics it is stated that attractive force among different components of a system is stronger in smaller systems than larger ones.

For example, atomic forces are much stronger than superatomic forces.

Force is a term to which Newton may be said to have given birth to. Newton's law of inertia has given the qualitative definition of force. Following that law it may be said that force is an agent which acting on a body actually changes the state of rest or of uniform motion of the body.

Force = Mass * Acceleration

The sun takes 225 million earth years or 1 cosmic year to make one complete revolution around the centre of the earth. Thus if we represent negative gravity as $-\gamma$

Then

$$-\gamma \propto 1/M_A \cdot M_a$$

$$\therefore -\gamma = K / M_A \cdot M_a \quad (M_A > M_a)$$

K – constant of negative gravity

M_A – mass of attracted body

M_a – mass of attracting body

Rockets overcome their own $(-\gamma)$ and hence flow out to space.

Aeroplanes only take a long jump and maintain their position above ground by the help of MHE-Resonance.

Mechanical and Heat Energy Resonance or MHE-Resonance

It is caused by artificially applied mechanical, periodic, external, unbalanced force. This previously force could just balance the negative gravity for that.

When we simply speak of negative gravity , we mean that it has been said with reference to the earth.

- 1) Negative gravity of a body is available with respect to the attracting body.
- 2) Negative value of negative gravity is never possible.
- 3) Negative gravity of any object is greatest with respect to the centre of the universe.
- 4) A body with greater mass has shorter NG-Range than a body with lesser mass.

NG-Range: It is the range of the distance of the affective attraction by the attracting body on the attracted body as measured in outward direction from the surface of the attracted body.