

Circular Rotational And Gravitation



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Circular Rotational And Gravitation

Circular Motion and Satellite Motion. Lesson 1 - Motion Characteristics for Circular Motion; Speed and Velocity; Acceleration; The Centripetal Force Requirement

Circular Motion and Satellite Motion - physicsclassroom.com

The Law of Universal Gravitation states that every object in the universe attracts every other object in the universe with a force that has a magnitude which is directly proportional to the product of their masses and inversely proportional to the distance between their centers squared.

PhysicsLAB: The Law of Universal Gravitation

Rotational speed (or speed of revolution) of an object rotating around an axis is the number of turns of the object divided by time, specified as revolutions per minute (rpm), cycles per second (cps), radians per second (rad/s), etc... The symbol for rotational speed is [citation needed] (the Greek lowercase letter "omega"). Tangential speed v , rotational speed ω , and radial distance r , are ...

Rotational speed - Wikipedia

Rotation around a fixed axis or about a fixed axis of revolution or motion with respect to a fixed axis of rotation is a special case of rotational motion. The fixed axis hypothesis excludes the possibility of an axis changing its orientation, and cannot describe such phenomena as wobbling or precession. According to Euler's rotation theorem, simultaneous rotation along a number of stationary ...

Rotation around a fixed axis - Wikipedia

Until this chapter, we have focused almost entirely on translational motion, the motion of bodies moving through space. But there is a second kind of motion, called rotational motion, which deals with the rotation of a body about its center of mass. The movement of any object can be described through the combination of translational motion of the object's center of mass and its rotational ...

SparkNotes: SAT Physics: Rotational Motion

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FlipIt Physics

Work must be done to rotate objects such as grindstones or merry-go-rounds. Work was defined in Uniform Circular Motion and Gravitation for translational motion, and we can build on that knowledge when considering work done in rotational motion. The simplest rotational situation is one in which the net force is exerted perpendicular to the radius of a disk (as shown in) and remains ...

Rotational Kinetic Energy: Work and Energy Revisited ...

Notice that at the endpoints, when $v = 0$, the mass has no kinetic energy, $KE = \frac{1}{2}mv^2$. Therefore, all of its energy is in the form of elastic potential energy, $PE_e = \frac{1}{2}kx^2$. When PE_e is maximum, the restoring force within the spring is also maximized resulting in the mass' acceleration also being maximized as the spring acts to return the mass to its equilibrium position.

PhysicsLAB: Simple Harmonic Motion

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Kinematics derives its name from the Greek word for "motion," kinema. Before we can make any headway in physics, we have to be able to describe how bodies move. Kinematics provides us with the language and the mathematical tools to describe motion, whether the motion of a charging pachyderm or a charged particle.

SparkNotes: SAT Physics: Kinematics

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