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If a gravitational force acts on the cannonball, it will follow a different path depending on its initial velocity. If the speed was the orbital speed at that altitude, it would go on circling around the Earth along a fixed circular orbit, just like the Moon. This visualisation is key for understanding orbital mechanics. Figure 1.

**Everything-you-need-to-know-about-orbital-mechanics**

4? 2. This problem can also be solved using Kepler's third law of planetary motion: the square of the period of a satellite in a circular orbit is proportional to the cube of its radius. That solution is presented in an earlier section of this book. Now substitute in the appropriate values.

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Chapters 5 through 8 carry on with the subject of orbital mechanics. Chapter 6 on orbital maneuvers should be included in any case. Coverage of Chapters 5, 7 and 8 is optional. However, if all of Chapter 8 on interplanetary missions is to form a part of the course, then the solution of Lambert's problem (Section 5.3) must be studied beforehand.

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Newton had to invent calculus so he could solve orbital mechanics problems in more than just a heuristic way. Newton (1642–1727) was an English physicist and mathematician whose 1687 publication *Mathematical Principles of Natural Philosophy* (the *Principia*) is one of the most influential scientific works of all times.

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Orbits are conic sections, so the formula for the distance of a body for a given angle corresponds to the formula for that curve in polar coordinates, which is:  $r = p / (1 + e \cos \theta)$ .  $\mu = G (m_1 + m_2)$   $p = h^2 / \mu$ .

**Orbital-mechanics—Wikipedia**

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F g = Gm 1 m 2 / r 2. F c = m 2 v 2 / r. v r = 2pi/T And now for the only new thing here: For the orbital condition to be satisfied, F g = F c Simple substitution then gets us to the most common variant, Gm 1 m 2 / r 2 = m 2 w 2 r. This simplifies to v 2 r = Gm 1 Note that the satellite's mass drops out here.

**Orbital-Mechanics—TuHS-Physics-Home-Page-1-1**

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**Atomic-orbital—Wikipedia**

TWO-BODY ORBITAL MECHANICS Similarly, apply the Second Law to the freight car to get its equation of motion, Fcfc/Fcfc= mfcfc/a, (1.5) where Fcfcis the force of the engine on the freight car, Fcfcis the force of the caboose on the freight car, mfcfcis the mass of the freight car, and afcfcis its acceleration.

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