

Solutions to Problems in Goldstein, Classical Mechanics, Second Edition

David Field

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Chapter 1

Problem 1.1

A satellite, originally at rest, orbits Earth, being so situated as always at the distance 1.78×10^7 m, and at right angles to the direction of the Earth's rotation axis (radius 6.37×10^6 m). The Earth's angular velocity with respect to a fixed axis is constant, being 7.29×10^{-5} rad s^{-1} . The Earth's radius is 6.37×10^6 m. Find the satellite's velocity, speed, and acceleration, when it is at the point of lowest instantaneous altitude 1.28×10^7 m. Express your answers in terms of the Earth's radius. What is the magnitude of the force exerted on the satellite? The satellite's mass is 1.28×10^4 kg. What is its position relative to the Earth's center?

Place the centre of the earth, and suppose the satellite is moving in the plane of rotation, and the satellite is at position A (figure). Find the distance of the satellite from the centre of the earth.

$$\text{distance} = \sqrt{(1.78 \times 10^7)^2 + (6.37 \times 10^6)^2}$$

and its distance from the earth

$$r = \sqrt{(1.78 \times 10^7)^2 + (6.37 \times 10^6)^2}$$

and the angle. The satellite has velocity v , tangential to the circle, and direction of the rotation is known. The force exerted on the satellite is

$$F = \frac{mv^2}{r} = \frac{1.28 \times 10^4 \times (7.29 \times 10^{-5})^2 \times (1.78 \times 10^7)^2}{\sqrt{(1.78 \times 10^7)^2 + (6.37 \times 10^6)^2}} = 1.28 \times 10^4 \times (7.29 \times 10^{-5})^2 \times (1.78 \times 10^7)^2$$

That is, the satellite has the same tangential velocity as the Earth's surface, and the force exerted on the satellite is

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 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
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 - Minimizing Distractions
 - Managing Screen Time
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- Interactive and Gamified eBooks

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