

Solutions to Problems in Goldstein, Classical Mechanics, Second Edition

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Chapter 1

Problem 1.1

A satellite, originally at rest, orbits Earth solely by gravity, an attraction of the type $\frac{1}{r^2}$ (Eq. 1.10). Let us define angular momentum, direction of the velocity, and the orbit's eccentricity, e , as follows: $L = mrv$. The Earth's radius is $R_E = 6370$ km. The satellite's speed for circular orbits, v_{circ} , is 7.91×10^3 m/s. The satellite's speed for elliptical orbits, v_{ell} , is 1.00×10^4 m/s. The satellite's speed for parabolic orbits, v_{par} , is 1.12×10^4 m/s. The satellite's speed for hyperbolic orbits, v_{hyp} , is 1.40×10^4 m/s. The satellite's speed for elliptical orbits, v_{ell} , is 1.00×10^4 m/s. The satellite's speed for parabolic orbits, v_{par} , is 1.12×10^4 m/s. The satellite's speed for hyperbolic orbits, v_{hyp} , is 1.40×10^4 m/s.

Find the satellite's angular momentum and speed at the point of closest approach to the Earth. (a) Find the satellite's angular momentum and speed at the point of closest approach to the Earth. (b) Find the satellite's angular momentum and speed at the point of closest approach to the Earth.

$$L = mrv_{\text{ell}} = 1.00 \times 10^4 \text{ m/s} \times 6370 \text{ km} \times 10^3 \text{ m/km} = 6.37 \times 10^{10} \text{ kg m}^2/\text{s}$$

and the satellite's speed at point

$$v = \frac{L}{mr} = \frac{6.37 \times 10^{10} \text{ kg m}^2/\text{s}}{6370 \text{ km} \times 10^3 \text{ m/km}} = 1.00 \times 10^4 \text{ m/s}$$

with the Earth. The satellite's speed at point of closest approach to the Earth is 1.00×10^4 m/s. The satellite's speed at point of closest approach to the Earth is 1.00×10^4 m/s.

$$v = \frac{L}{mr} = \frac{6.37 \times 10^{10} \text{ kg m}^2/\text{s}}{6370 \text{ km} \times 10^3 \text{ m/km}} = 1.00 \times 10^4 \text{ m/s}$$

That is, the satellite's speed at point of closest approach to the Earth is 1.00×10^4 m/s. The satellite's speed at point of closest approach to the Earth is 1.00×10^4 m/s.

Goldstein Classical Mechanics Solution Manual

G Psacharopoulos



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A Viktorov which contains an extensive discussion of fundamental properties of surface waves in homogeneous and stratified linear elastic solids with particular emphasis on contributions of Russian scientists Unfortunately the book has never been translated to English and its Russian version is also hardly available Practical applications of surface waves develop intensively since a much shorter period of time than theories even though the motivation of discoverers of surface waves such as Lord Rayleigh stems from their appearance in geophysics and seismology Nowadays the growing interest in practical applications of surface waves stem from the following two main factors surface waves are ideal for developing relatively cheap and convenient methods of nondestructive testing of various systems spanning from nanomaterials e g NASA Contractor Report United States. National Aeronautics and Space Administration,1970

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