

Solutions to Problems in Goldstein, Classical Mechanics, Second Edition

David Hestenes

August 20, 2000

Chapter 1

Problem 1.1

A satellite, originally at rest, orbits Earth before its velocity is affected by the explosion $(10^7 \text{ kg} \cdot \text{m}^2/\text{s}^2)$, and its path subsequently becomes a circle of the same radius (with constant speed 8000 m/s). The Earth's gravitational force with the mass of satellite used for circular motion, equal to $4.00 \times 10^4 \text{ newtons}$, is perpendicular to the velocity. What is the magnitude of the impulse $\mathbf{J}$ in the explosion? Is the satellite's speed increased or decreased by the explosion? (The satellite's initial speed is 10^4 m/s .)

Draw the vectors of momenta and compare the situation to collisions in the center of mass frame, and the solution to the problem of Exercise 1. Find the direction of the impulse and compare it to the direction of the impulse.

$$\mathbf{J} = \mathbf{p}_f - \mathbf{p}_i = 10^7 \text{ kg} \cdot \text{m}^2/\text{s}^2$$

and the direction of the impulse

$$\mathbf{J} = 10^7 \text{ kg} \cdot \text{m}^2/\text{s}^2 \hat{\mathbf{r}}$$

with the $\hat{\mathbf{r}}$ axis. The impulse is the vector sum of the initial momentum and the impulse of the explosion. The final velocity of the satellite is

$$\mathbf{v} = \frac{\mathbf{p}}{m} = \frac{10^7 \text{ kg} \cdot \text{m}^2/\text{s}^2}{10^4 \text{ kg}} = 10^3 \text{ m/s} \hat{\mathbf{r}}$$

That is, the satellite's speed is increased by the explosion. The direction of the impulse is the same as the direction of the impulse.

Goldstein Classical Mechanics Solution Manual

Zhe Xu



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the correct option is b change in momentum note

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