

Solutions to Problems in Goldstein,
Classical Mechanics, Second Edition

Homer Reid

December 1, 2001

Chapter 3

Problem 3.1

A particle of mass m is constrained to move under gravity without friction on the inside of a paraboloid of revolution whose axis is vertical. Find the one-dimensional problem equivalent to its motion. What is the condition on the particle's initial velocity to produce circular motion? Find the period of small oscillations about this circular motion.

We'll take the paraboloid to be defined by the equation $z = \alpha r^2$. The kinetic and potential energies of the particle are

$$\begin{aligned} T &= \frac{m}{2}(\dot{r}^2 + r^2\dot{\theta}^2 + \dot{z}^2) \\ &= \frac{m}{2}(\dot{r}^2 + r^2\dot{\theta}^2 + 4\alpha^2 r^2\dot{r}^2) \\ V &= mgr = m\alpha r^2. \end{aligned}$$

Hence the Lagrangian is

$$L = \frac{m}{2}[(1 + 4\alpha^2 r^2)\dot{r}^2 + r^2\dot{\theta}^2] - m\alpha r^2.$$

This is cyclic in θ , so the angular momentum is conserved:

$$l = mr^2\dot{\theta} = \text{constant}.$$

Classical Mechanics Goldstein Solutions Chapter 3

John A. Trangenstein



Classical Mechanics Goldstein Solutions Chapter 3:

The book delves into Classical Mechanics Goldstein Solutions Chapter 3. Classical Mechanics Goldstein Solutions Chapter 3 is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Classical Mechanics Goldstein Solutions Chapter 3, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Classical Mechanics Goldstein Solutions Chapter 3
 - Chapter 2: Essential Elements of Classical Mechanics Goldstein Solutions Chapter 3
 - Chapter 3: Classical Mechanics Goldstein Solutions Chapter 3 in Everyday Life
 - Chapter 4: Classical Mechanics Goldstein Solutions Chapter 3 in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, this book will delve into the foundational concepts of Classical Mechanics Goldstein Solutions Chapter 3. This chapter will elucidate the essential principles that must be understood to grasp Classical Mechanics Goldstein Solutions Chapter 3 in its entirety.
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 6. In chapter 5, the author will draw a conclusion about Classical Mechanics Goldstein Solutions Chapter 3. The final chapter will summarize the key points that have been discussed throughout the book.
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