

PHYS 410 Homework # 8

6.1. On a spherical surface, the longitude and latitude lines are orthogonal.



For a small change in position, we have the change in longitude and latitude:

$$ds_{\phi} = R \cdot d\theta, \quad ds_{\lambda} = R \sin\theta \cdot d\phi$$

$$\Rightarrow ds = \sqrt{ds_{\phi}^2 + ds_{\lambda}^2} = R \cdot d\theta \sqrt{1 + \sin^2\theta \frac{d\phi^2}{d\theta^2}}$$

$$\Rightarrow L = \int_{\theta_1}^{\theta_2} ds = R \int_{\theta_1}^{\theta_2} \sqrt{1 + \sin^2\theta \frac{d\phi^2}{d\theta^2}} \cdot d\theta$$

6.3



$$L(P, Q) = \sqrt{x_1^2 + y_1^2 + z_1^2} + \sqrt{x_2^2 + y_2^2 + z_2^2}$$

$$\Rightarrow T = L/c$$

According to Fermat's principle, we get:

$$\frac{\delta T}{\delta x} = 0, \quad \frac{\delta T}{\delta y} = 0.$$

$$\frac{\delta T}{\delta z} = 0 \Rightarrow 2 \cdot \left( \frac{1}{\sqrt{x_1^2 + y_1^2 + z_1^2}} + \frac{1}{\sqrt{x_2^2 + y_2^2 + z_2^2}} \right) = 0 \Rightarrow z = 0 \quad (1)$$

$$\frac{\delta T}{\delta x} = 0 \Rightarrow \frac{x_1}{\sqrt{x_1^2 + y_1^2 + z_1^2}} + \frac{x_2}{\sqrt{x_2^2 + y_2^2 + z_2^2}} = 0 \quad (2)$$



According to (1), when  $z=0$ , we get from (2):

$$\sin\theta_1 = \sin\theta_2$$

$$\Rightarrow \theta_1 = \theta_2$$

6.5



According to General Geometric relation, we know  $\angle APB = \frac{\theta}{2}$ .

$$\text{And } \alpha = \frac{\theta - \theta}{2}$$

$$\Rightarrow AP = AB \cdot \sin(\frac{\theta}{2} - \alpha) = AB \cos \frac{\theta}{2} = AB \sin \frac{\theta}{2} = 2R \sin \frac{\theta}{2}$$

$$BP = AB \cdot \sin \alpha = 2R \cdot \cos \frac{\theta}{2}$$

$$\Rightarrow APB = 2R \cdot (\sin \frac{\theta}{2} + \cos \frac{\theta}{2}) = 2\sqrt{2} \sin(\frac{\theta}{2} + \frac{\pi}{4}) R$$

$$\Rightarrow (APB)_{max} = 2\sqrt{2} R \text{ when } \theta = \frac{\pi}{2}, \text{ which is the real path.}$$

6.7

(2.4.2)



In cylinder coordinates, when  $R$  is const, the infinitesimal change in position corresponds to

$$ds = \sqrt{R^2 d\phi^2 + dz^2} = dz \sqrt{1 + R^2 \frac{d\phi^2}{dz^2}} = f(\phi, z) dz$$

$$\Rightarrow L = \int_{\phi_1}^{\phi_2} ds = \int_{z_1}^{z_2} f(\phi, z) dz$$

# Classical Mechanics Chapter 6 Homework Solutions

**Michael A Slawinski**



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Bruce Cameron Reed, 2022-11-30 Quantum mechanics is one of the most fascinating elements of the physics curriculum but its conceptual nuances and mathematical complexity can be daunting for beginning students This user friendly text is designed for a one semester course which bridges the gap between sophomore level treatments and advanced undergraduate lower graduate courses Qualitative explanations and descriptions of historical background are combined with detailed mathematical analyses to help students establish a firm foundation for further study Classical problems such potential wells barrier penetration alpha decay the harmonic oscillator and the hydrogen atom are examined in detail and formalisms and techniques such as operators expectation values commutators perturbation theory numerical solutions and the variational theorem are also covered Particular emphasis is placed on providing numerous worked examples and exercises **Topics**

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### **Table of Contents Classical Mechanics Chapter 6 Homework Solutions**

1. Understanding the eBook Classical Mechanics Chapter 6 Homework Solutions
  - The Rise of Digital Reading Classical Mechanics Chapter 6 Homework Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Classical Mechanics Chapter 6 Homework Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Classical Mechanics Chapter 6 Homework Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Classical Mechanics Chapter 6 Homework Solutions
  - Personalized Recommendations

- Classical Mechanics Chapter 6 Homework Solutions User Reviews and Ratings
- Classical Mechanics Chapter 6 Homework Solutions and Bestseller Lists
- 5. Accessing Classical Mechanics Chapter 6 Homework Solutions Free and Paid eBooks
  - Classical Mechanics Chapter 6 Homework Solutions Public Domain eBooks
  - Classical Mechanics Chapter 6 Homework Solutions eBook Subscription Services
  - Classical Mechanics Chapter 6 Homework Solutions Budget-Friendly Options
- 6. Navigating Classical Mechanics Chapter 6 Homework Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Classical Mechanics Chapter 6 Homework Solutions Compatibility with Devices
  - Classical Mechanics Chapter 6 Homework Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Classical Mechanics Chapter 6 Homework Solutions
  - Highlighting and Note-Taking Classical Mechanics Chapter 6 Homework Solutions
  - Interactive Elements Classical Mechanics Chapter 6 Homework Solutions
- 8. Staying Engaged with Classical Mechanics Chapter 6 Homework Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Classical Mechanics Chapter 6 Homework Solutions
- 9. Balancing eBooks and Physical Books Classical Mechanics Chapter 6 Homework Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Classical Mechanics Chapter 6 Homework Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Classical Mechanics Chapter 6 Homework Solutions
  - Setting Reading Goals Classical Mechanics Chapter 6 Homework Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Classical Mechanics Chapter 6 Homework Solutions
  - Fact-Checking eBook Content of Classical Mechanics Chapter 6 Homework Solutions

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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the itsy bitsy spider is a lesson in perseverance this little spider never gives up no matter how many times the rain washes him down the spout he gets up and tries again

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dec 2 2019 a classic nursery rhyme with finger play the itsy bitsy spider is also known as the incy wincy spider in some countries it s hard not to be endeared by this song even if you are a tiny bit creeped out by real life spiders here are the lyrics to the itsy bitsy spider the itsy bitsy spider crawled up the water spout

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itsy bitsy spider finger play itsy bitsy spider more often recited than sung is a finger play rhyme for children it tells the

adventures of a spider named itsy bitsy or incy wincy more popular in england who is going up and down and up again as the weather is chaining

**itsy bitsy spider wikipedia** - Sep 01 2023

the itsy bitsy spider also known as the incy wincy spider in australia 1 great britain 2 and other anglophone countries is a popular nursery rhyme folksong and fingerplay that describes the adventures of a spider as it ascends descends and reascends the downspout or waterspout of a gutter system or open air reservoir

the itsy bitsy spider tv series 1994 1995 imdb - Nov 22 2022

the itsy bitsy spider created by willard carroll matthew o callaghan with matt frewer frank welker charlotte rae francesca marie smith