

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:

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

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

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

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:

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

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

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

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  $\angle APB = \frac{\theta}{2}$ .

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

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

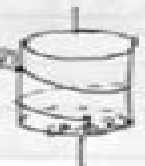
$$BP = AB \cdot \sin \alpha = 2R \cdot \cos \frac{\theta}{2}$$

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

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

6.7

(2.4.2)



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

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

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

# Classical Mechanics Chapter 6 Homework Solutions

**Ying-Ying Zheng**



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*Waves And Rays In Seismology: Answers To Unasked Questions (Second Edition)* Michael A Slawinski, 2018-05-04 In summary Professor Slawinski has written an engaging volume covering an unfamiliar topic in a highly accessible fashion Non specialists will gain a significant appreciation of the unique complexities associated with seismology Contemporary Physics The author dedicates this book to readers who are concerned with finding out the status of concepts statements and hypotheses and with clarifying and rearranging them in a logical order It is thus not intended to teach tools and techniques of the trade but to discuss the foundations on which seismology and in a larger sense the theory of wave propagation in solids is built A key question is why and to what degree can a theory developed for an elastic continuum be used to investigate the propagation of waves in the Earth which is neither a continuum nor fully elastic But the scrutiny of the foundations goes much deeper material symmetry effective tensors equivalent media the influence or rather the lack thereof of gravitational and thermal effects and the rotation of the Earth are discussed ab initio The variational principles of Fermat and Hamilton and their consequences for the propagation of elastic waves causality Noether s theorem and its consequences on conservation of energy and conservation of linear momentum are but a few topics that are investigated in the process to establish seismology as a science and to investigate its relation to subjects like realism and empiricism in natural sciences to the nature of explanations and predictions and to experimental verification and refutation In the second edition new sections figures examples exercises and remarks are added Most importantly however four new appendices of about one hundred pages are included which can serve as a self contained continuum mechanics course on finite elasticity Also they broaden the scope of elasticity theory commonly considered in seismology

**Waves And Rays In Seismology: Answers To Unasked Questions (Third Edition)** Michael A Slawinski, 2020-11-20 This is a book on seismology dealing with advanced aspects of wave propagation in complex media It can also be viewed as a book on mathematical modelling wherein the accuracy of describing seismic phenomena exemplifies the modelling itself The book gives an insight into the power of abstractness by applying the same mathematical methods and strategies to solve a variety of different physical problems This book covers a broad range of topics in an advanced yet accessible manner Each chapter is accompanied by a number of solved exercises which render the book convenient for a lecturer and facilitate its use for an independent study The details of mathematical methods are discussed in the appendices which form a substantial portion of the book

Quantum Mechanics 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 as 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 in Atomic Physics Charles E. Burkhardt, Jacob J. Leventhal, 2006-07-30 The importance of the field of atomic physics to modern technology cannot be overemphasized Atomic physics served as a major impetus to the development of the quantum theory of matter in the early part of the twentieth century and due to the availability of the laser as a laboratory tool it has taken us into the twenty-first century with an abundance of new and exciting phenomena to understand Our intention in writing this book is to provide a foundation for students to begin research in modern atomic physics

The title implies it is not nor was it intended to be an all inclusive tome covering every aspect of atomic physics Any specialized textbook necessarily reflects the predilection of the authors toward certain aspects of the subject This one is no exception It reflects our belief that a thorough understanding of the unique properties of the hydrogen atom is essential to an understanding of atomic physics It also reflects our fascination with the distinguished position that Mother Nature has bestowed on the pure Coulomb and Newtonian potentials and thus hydrogen atoms and Keplerian orbits Therefore we have devoted a large portion of this book to the hydrogen atom to emphasize this distinctiveness

We attempt to stress the uniqueness of the attractive  $1/r$  potential without delving into group theory It is our belief that once an understanding of the hydrogen atom is achieved the properties of multi-electron atoms can be understood as departures from hydrogenic properties

*Structural Analysis of Polymeric Composite Materials, Second Edition* Mark E. Tuttle, 2012-12-03 Structural Analysis of Polymeric Composite Materials Second Edition introduces the mechanics of composite materials and structures and combines classical lamination theory with macromechanical failure principles for prediction and optimization of composite structural performance It addresses topics such as high strength fibers manufacturing techniques commercially available compounds and the behavior of anisotropic orthotropic and transversely isotropic materials and structures subjected to complex loading Emphasizing the macromechanical structural level over micromechanical issues and analyses this unique book integrates effects of environment at the outset to establish a coherent and updated knowledge base In addition each chapter includes example problems to illustrate the concepts presented

Applied Mechanics Reviews, 1991

**Publicationes mathematicae** Kossuth Lajos Tudományegyetem. Matematikai Intézet, 1985 Journal of Applied

Mechanics ,1977 Publishes original research in all branches of mechanics including aerodynamics aeroelasticity boundary layers computational mechanics constitutive modeling of materials dynamics elasticity flow and fracture heat transfer hydraulics impact internal flow mechanical properties of materials micromechanics plasticity stress analysis structures thermodynamics turbulence vibration and wave propagation **Acta Scientiarum Mathematicarum** József Attila Tudományegyetem,1997 Nonlinear Solid Mechanics Gerhard A. Holzapfel,2000-04-06 Providing a modern and comprehensive coverage of continuum mechanics this volume includes information on variational principles Significant as this is the only method by which such material is actually utilized in engineering practice **The Bookman** ,1892 **The Bookseller** ,1906 Physics, Volume 1 Robert Resnick,David Halliday,Kenneth S. Krane,2002 Written for the full year or three term Calculus based University Physics course for science and engineering majors the publication of the first edition of Physics in 1960 launched the modern era of Physics textbooks It was a new paradigm at the time and continues to be the dominant model for all texts Physics is the most realistic option for schools looking to teach a more demanding course The Journal of the Royal Aeronautical Society ,1962 *Engineering News* ,1905 *The British National Bibliography* Arthur James Wells,1965 **The Mathematical Gazette** ,1985 The Structural Engineer ,1992 The Australian Physicist ,1972

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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 eBook Platform
  - User-Friendly Interface
4. Exploring eBook Recommendations from Classical Mechanics Chapter 6 Homework Solutions
  - Personalized Recommendations
  - eBook Reviews and Ratings
  - Bestseller Lists
5. Accessing Classical Mechanics Chapter 6 Homework Solutions Free and Paid eBooks
  - Public Domain eBooks
  - eBook Subscription Services
  - Budget-Friendly Options
6. Navigating eBook Formats
  - ePub, PDF, MOBI, and More
  - Compatibility with Devices
  - Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes
  - Highlighting and Note-Taking
  - Interactive Elements
8. Staying Engaged with eBook Reading

- 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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