

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:

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

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

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



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

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

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

Classical Mechanics Problem Solutions

O. L. de Lange, J. Pierrus



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Classical Mechanics Konstantin Konstantinovich Likharev, 2017 Essential Advanced Physics is a series comprising four parts Classical Mechanics Classical Electrodynamics Quantum Mechanics and Statistical Mechanics Each part consists of two volumes Lecture notes and Problems with solutions further supplemented by an additional collection of test problems and solutions available to qualifying university instructors This volume Classical Mechanics Problems with solutions contains detailed model solutions to the exercise problems formulated in the companion Lecture notes volume In many cases the solutions include result discussions that enhance the lecture material For the reader's convenience the problem assignments are reproduced in this volume Source résumé de l'auteur [Introduction to Classical Mechanics](#) David Morin, 2008-01-10 This textbook covers all the standard introductory topics in classical mechanics including Newton's laws oscillations energy momentum angular momentum planetary motion and special relativity It also explores more advanced topics such as normal modes the Lagrangian method gyroscopic motion fictitious forces 4 vectors and general relativity It contains more than 250 problems with detailed solutions so students can easily check their understanding of the topic There are also over 350 unworked exercises which are ideal for homework assignments Password protected solutions are available to instructors at www.cambridge.org/9780521876223 The vast number of problems alone makes it an ideal supplementary text for all levels of undergraduate physics courses in classical mechanics Remarks are scattered throughout the text discussing issues that are often glossed over in other textbooks and it is thoroughly illustrated with more than 600 figures to help demonstrate key concepts [Solved Problems in Classical Mechanics](#) O. L. de Lange, J. Pierrus, 2010-05-06 Apart from an introductory chapter giving a brief summary of Newtonian and Lagrangian mechanics this book consists entirely of questions and solutions on topics in classical mechanics that will be encountered in undergraduate and graduate courses These include one two and three dimensional motion linear and nonlinear oscillations energy potentials momentum and angular momentum spherically symmetric potentials multi particle systems rigid bodies translation and rotation of the reference frame the relativity principle and some of its consequences The solutions are followed by a set of comments intended to stimulate inductive reasoning and provide additional information of interest Both analytical and numerical computer techniques are used to obtain and analyze solutions The computer calculations use Mathematica version 7 and the relevant code is given in the text It includes use of the interactive Manipulate function which enables one to observe simulated motion on a computer screen and to study the effects of changing parameters The book will be useful to students and lecturers in undergraduate and graduate courses on classical mechanics and students and lecturers in courses in computational physics *Classical Mechanics* Carolina C. Ilie, Zachariah S. Schrecengost, Elina M. van Kempen, 2022-12-29 This book of problems and solutions in classical mechanics is dedicated to junior or senior undergraduate students in physics engineering applied mathematics astronomy or chemistry who may want to improve their problems solving skills or to freshman graduate students who may be

seeking a refresh of the material The book is structured in ten chapters starting with Newton's laws motion with air resistance conservation laws oscillations and the Lagrangian and Hamiltonian Formalisms The last two chapters introduce some ideas in nonlinear dynamics chaos and special relativity Each chapter starts with a brief theoretical outline and continues with problems and detailed solutions A concise presentation of differential equations can be found in the appendix A variety of problems are presented from the standard classical mechanics problems to context rich problems and more challenging problems Key features Presents a theoretical outline for each chapter Motivates the students with standard mechanics problems with step by step explanations Challenges the students with more complex problems with detailed solutions

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The Mechanics Problem Solver Research and Education Association, 1995

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Scientific and Technical Aerospace Reports, 1967

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1. Understanding the eBook Classical Mechanics Problem Solutions
 - The Rise of Digital Reading Classical Mechanics Problem Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Classical Mechanics Problem 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 Problem Solutions
 - Personalized Recommendations
 - eBook Platform User Reviews and Ratings
 - eBook Platform Bestseller Lists

5. Accessing Classical Mechanics Problem Solutions Free and Paid eBooks
 - Classical Mechanics Problem Solutions Public Domain eBooks
 - Classical Mechanics Problem Solutions eBook Subscription Services
 - Classical Mechanics Problem Solutions Budget-Friendly Options
6. Navigating Classical Mechanics Problem Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Classical Mechanics Problem Solutions Compatibility with Devices
 - Classical Mechanics Problem Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Classical Mechanics Problem Solutions
 - Highlighting and Note-Taking Classical Mechanics Problem Solutions
 - Interactive Elements Classical Mechanics Problem Solutions
8. Staying Engaged with Classical Mechanics Problem Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Classical Mechanics Problem Solutions
9. Balancing eBooks and Physical Books Classical Mechanics Problem Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Classical Mechanics Problem Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Classical Mechanics Problem Solutions
 - Setting Reading Goals Classical Mechanics Problem Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Classical Mechanics Problem Solutions
 - Fact-Checking eBook Content of Classical Mechanics Problem 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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web sep 26 1988 the satanic verses 1988 novel of indian born british writer salman rushdie led ruholla khomeini the ayatollah of iran to demand his execution and then forced him into hiding his other works include midnight s children 1981 which won the booker prize and the moor s last sigh 1995

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spread across hundreds of years framed by the story of two competing indian muslim actors

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web the satanic verses is the fourth novel of british indian writer salman rushdie first published in september 1988 the book was inspired by the life of the islamic prophet muhammad as with his previous books rushdie used magical realism and relied on contemporary events and people to create his characters

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web aug 19 2022 the account was known among islamic scholars as the story of the cranes and by orientalists later as the satanic verses many early muslim scholars did not find it particularly

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web the satanic verses are words of satanic suggestion which the islamic prophet muhammad is alleged to have mistaken for divine revelation the words praise the three pagan meccan goddesses al lāt al uzzá and manāt and can be read in early prophetic biographies of muhammad by al wāqidī ibn sa d and the tafsir of al tabarī