

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:

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

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

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



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

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

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

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

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

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

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

Choonkyu Lee, Hyunsoo Min



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Classical Mechanics Konstantin K. Likharev, 2018-04-30 Essential Advanced Physics EAP 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 Written for graduate and advanced undergraduate students the goal of this series is to provide readers with a knowledge base necessary for professional work in physics be that theoretical or experimental fundamental or applied research From the formal point of view it satisfies typical PhD basic course requirements at major universities Selected parts of the series may also be valuable for graduate students and researchers in allied disciplines including astronomy chemistry materials science and mechanical electrical computer and electronic engineering The EAP series is focused on the development of problem solving skills The following features distinguish it from other graduate level textbooks Concise lecture notes 250 pages per semester Emphasis on simple explanations of the main concepts ideas and phenomena of physics Sets of exercise problems with detailed model solutions in separate companion volumes Extensive cross referencing between the volumes united by common style and notation Additional sets of test problems freely available to qualifying faculty 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

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For Classical Mechanics And Electrodynamics (Second Edition). Jon Magne Leinaas, 2025 **Cognitive Structures in Scientific Inquiry**, 2016-08-01 This book is the second of two volumes devoted to the work of Theo Kuipers a leading Dutch philosopher of science Philosophers and scientists from all over the world thirty seven in all comment on Kuipers philosophy and each of their commentaries is followed by a reply from Kuipers The present volume is devoted to Kuipers neo classical philosophy of science as laid down in his Structures in Science Kluwer 2001 Kuipers defends a dialectical interaction between science and philosophy in that he views philosophy of science as a meta science which formulates cognitive structures that provide heuristic patterns for actual scientific research including design research In addition Kuipers pays considerable attention to the computational approaches to philosophy of science as well as to the ethics of doing research Thomas Nickles David Atkinson Jean Paul van Bendegem Maarten Franssen Anne Ruth Mackor Arno Wouters Erik Weber Helena de Preester Eric Scerri Adam Grobler Andrzej Wisniewski Alexander van den Bosch Gerard Vreeswijk Jaap Kamps Paul Thagard Emma Ruttkamp Robert Causey Henk Zandvoort comment on these ideas of Kuipers and many present their own account The present book also contains a synopsis of Structures in Science It can be read independently of the first volume of Essays in Debate with Theo Kuipers which is devoted to Kuipers From Instrumentalism to Constructive Realism 2000 Introduction To Classical Mechanics: Solutions To Problems John Dirk Walecka, 2020-08-24 The textbook

Introduction to Classical Mechanics aims to provide a clear and concise set of lectures that take one from the introduction and application of Newton's laws up to Hamilton's principle of stationary action and the Lagrangian mechanics of continuous

systems An extensive set of accessible problems enhances and extends the coverage It serves as a prequel to the author s recently published book entitled Introduction to Electricity and Magnetism based on an introductory course taught some time ago at Stanford with over 400 students enrolled Both lectures assume a good concurrent course in calculus and familiarity with basic concepts in physics the development is otherwise self contained As an aid for teaching and learning and as was previously done with the publication of Introduction to Electricity and Magnetism Solutions to Problems this additional book provides the solutions to the problems in the text Introduction to Classical Mechanics

The Mechanics Problem Solver
Research and Education Association,1995

Cognitive Structures in Scientific Inquiry Roberto Festa,Atocha Aliseda,Adriana Johanna Maria Peijnenburg,2005 This book is the first of two volumes devoted to the work of Theo Kuipers a leading Dutch philosopher of science Philosophers and scientists from all over the world thirty seven in all comment on Kuipers philosophy and each of their commentaries is followed by a reply from Kuipers The present volume focuses on Kuipers views on confirmation empirical progress and truth approximation as laid down in his From Instrumentalism to Constructive Realism Kluwer 2000 In this book Kuipers offered a synthesis of Carnap s and Hempel s confirmation theory on the one hand and Popper s theory of truth approximation on the other The key element of this synthesis is a sophisticated methodology which enables the evaluation of theories in terms of their problems and successes even if the theories are already falsified and which also fits well with the claim that one theory is closer to the truth than another Ilkka Niiniluoto Patrick Maher John Welch Gerhard Schurz Igor Douven Bert Hamminga David Miller Johan van Benthem Sjoerd Zwart Thomas Mormann Jes s Zamora Bonilla Isabella Burger andamp Johannes Heidema Joke Meheus Hans Mooij and Diderik Batens comment on these ideas of Kuipers and many present their own account The present book also contains a synopsis of From Instrumentalism to Constructive Realism It can be read independently of the second volume of Essays in Debate with Theo Kuipers which is devoted to Kuipers Structures in Science 2001

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as those involved in teaching classical mechanics this book can be used as a supplementary text or as an independent study aid

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Collected Papers on Wave Mechanics Erwin Schrödinger, 1928

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