PHYS 400   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:

$$dl_o = R \cdot d\theta \quad, \quad dl_a = R \cdot \sin\theta \cdot d\phi$$

$$\Rightarrow ds = \sqrt{dl_o^2 + dl_a^2} = R\, d\theta \sqrt{1 + \sin^2\theta \frac{d\phi}{d\theta}}$$

$$\Rightarrow L = \int_{P_1}^{P_2} ds = R \int_{\theta_1}^{\theta_2} \sqrt{1 + \sin^2\theta \frac{d\phi}{d\theta}} \cdot d\theta$$

6.3.

$$L = PQ + QR = \sqrt{x^2 + y^2 + z^2} + \sqrt{(x_2-x)^2 + y_2^2 + z^2}$$

$$\Rightarrow T = L/c$$

According to Fermat's principle, we get:

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

$$\frac{\partial T}{\partial z} = 0 \Rightarrow z \cdot \left(\frac{1}{\sqrt{x^2+y^2+z^2}} + \frac{1}{\sqrt{(x_2-x)^2+y_2^2+z^2}} \right) = 0 \Rightarrow z = 0 \qquad - (1)$$

$$\frac{\partial T}{\partial x} = 0 \Rightarrow \frac{x}{\sqrt{x^2+y^2+z^2}} + \frac{x-x_2}{\sqrt{(x_2-x)^2+y_2^2+z^2}} = 0 \qquad - (2)$$

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

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

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

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

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

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

6.7

In cylinder coordinates, when R is const., the infinitesimal change in position corresponds to $ds = \sqrt{R^2 d\phi^2 + dz^2} = d\phi \sqrt{1 + R'^2 \phi'^2} = f(\phi, z) d\phi$

$$\Rightarrow L = \int_{P_1}^{P_2} ds = \int_{\phi_1}^{\phi_2} f(\phi, z) d\phi$$

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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   **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   *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

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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 ,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   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   **Essential Classical Mechanics: Problems And Solutions** Choonkyu Lee,Hyunsoo Min,2018-07-10 The authors of this book offer a very strong reason for the study of classical mechanics

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   Scientific and Technical Aerospace Reports ,1967   **Thinking Across Cultures** Donald M. Topping,Doris C. Crowell,Victor N. Kobayashi,2013-09-05 This volume compares and contrasts contemporary theories of cognition modes of perception and learning from cross cultural perspectives The participants were asked to consider and assess the question of whether people from different cultures think differently Moreover they were asked to consider whether the same approaches to teaching and development of thinking will work in all cultures as well as they do in Western literate societies

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Classical Mechanics Problem Solutions Book Review: Unveiling the Magic of Language

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