

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



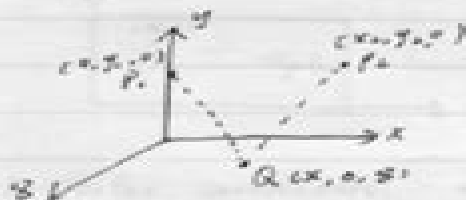
For a small change in position, we have the change in longitude and latitude:

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

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

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

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

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

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

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

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

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

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

Thomas Griffiths



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Solution Manual For Classical Mechanics And Electrodynamics (Second Edition). Jon Magne Leinaas, 2025

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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

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Collected Papers on Wave Mechanics Erwin Schrödinger,1928

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

Proceedings of the Royal Society of London Royal Society (Great Britain),1926

Solutions of Weekly Problem Papers John James Milne,1885

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