General Relativity: Exercises 2 -Solutions

May 25, 2011

Homework 1: Foucault Pendulum

Equations of parallel transport of vector V are

$$\dot{V}^{\mu} + \Gamma^{\mu}_{\alpha\beta}\dot{x}^{\mu}V^{\rho} = 0, \qquad (1)$$

where dot means differentiation according to t. Taking Christoffel symbols for 2-speheres and choosing parametrization $t = \phi$ we obtain system of coupled differential equations

$$\dot{V}^{\phi} = \sin \theta_0 \cos \theta_0 V^{\phi} = 0,$$
 (2)
 $\dot{V}^{\phi} = \cot \theta_0 V^{\phi} = 0.$ (3)

$$V^{\phi} = \cot \theta_0 V^{\phi} = 0. \qquad (3)$$

We can solve this system by differentiating first equation according to ϕ and inserting second equation into it. We obtain differential equation of second order

$$\hat{V}^{\varphi} + \cos^2 \theta_0 V^{\varphi} = 0, \qquad (4)$$

Solution to this differential equation is given by

$$V^{\theta} = A \cos(\phi \cos \theta_0) + B \sin(\phi \cos \theta_0),$$
 (5)

where A and B are integration constants which we can determine from condition $V = (V^{\phi}, V^{\phi}) =$ (0,1) at $\phi=0$. We obtain A=1 and B=0. With knowledge of V^{φ} we can find (3) to be

$$\dot{V}^{\phi} = -\cot \theta_0 V^{\phi} = -\cot \theta_0 \cos(\phi \cos \theta_0),$$
 (6)

which can be easily integrated and thus we obtain final solution

$$V^{\theta} = \cos(\phi \cos \theta_0),$$
 (7)

$$V^{\phi} = -\frac{\sin(\phi \cos \theta_0)}{\sin \theta_0}.$$
 (8)

To find angle by which is vector rotated we need

$$\cos \alpha = \frac{V V'}{|V'| |V''|} \qquad (9)$$

where V is $V = V(\phi = 0)$ and V' is after parallel transport, i.e. $V' = V(\phi = 2\pi)$ From there we can see that after parallel transport around full circle, i.e. from $\phi = 0$ to $\phi = 2\pi$, vector V will be rotated low amade.

$$\alpha = 2\pi \cos \theta_0$$
, (10)

what is exactly angle by which Foucault pendulum will be rotated by one day. This is because motion of Foursault pendulum is inertial, i.e. is parallely transported. In one day it is parallely transported around full circle (because of rotation of Earth surface).

General Relativity Solutions To Exercises

L. P. Hughston, K. P. Tod

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moving on to give a clear and rigorous account of AdS CFT correspondence The final section discusses the more specialised applications including QCD quark gluon plasma and condensed matter This book is self contained and learner focused featuring numerous exercises and examples It is essential reading for both students and researchers across the fields of particle nuclear and condensed matter physics *Elementary General Relativity* C. Clarke, Christopher James Seaton Clarke, 1980 *General Relativity Without Calculus* Jose Natario, 2011-07-30 General Relativity Without Calculus offers a compact but mathematically correct introduction to the general theory of relativity assuming only a basic knowledge of high school mathematics and physics Targeted at first year undergraduates and advanced high school students who wish to learn Einstein's theory beyond popular science accounts it covers the basics of special relativity Minkowski space time non Euclidean geometry Newtonian gravity the Schwarzschild solution black holes and cosmology The quick paced style is balanced by over 75 exercises including full solutions allowing readers to test and consolidate their understanding

Introduction to General Relativity Ronald Adler, Maurice Bazin, Menahem Schiffer, 1975 Problem Book in Relativity and Gravitation Alan P. Lightman, 1975-12-21 The authors have attempted to convey a mode of approach to these kinds of problems revealing procedures that can reduce the labor of calculations while avoiding the pitfall of too much or too powerful formalism A Short Course in General Relativity James A. Foster, J. David Nightingale, 2010-04-30 Suitable for a one semester course in general relativity for senior undergraduates or beginning graduate students this text clarifies the mathematical aspects of Einstein's theory of relativity without sacrificing physical understanding The text begins with an exposition of those aspects of tensor calculus and differential geometry needed for a proper treatment of the subject The discussion then turns to the spacetime of general relativity and to geodesic motion A brief consideration of the field equations is followed by a discussion of physics in the vicinity of massive objects including an elementary treatment of black holes and rotating objects The main text concludes with introductory chapters on gravitational radiation and cosmology This new third edition has been updated to take account of fresh observational evidence and experiments It includes new sections on the Kerr solution in Chapter 4 and cosmological speeds of recession in Chapter 6 A more mathematical treatment of tensors and manifolds included in the 1st edition but omitted in the 2nd edition has been restored in an appendix Also included are two additional appendixes Special Relativity Review and The Chinese Connection and outline solutions to all exercises and problems making it especially suitable for private study Ouantum Gravity and Ouantum Cosmology Gianluca Calcagni, Lefteris Papantonopoulos, George Siopsis, Nikos Tsamis, 2012-10-31 Quantum gravity has developed into a fast growing subject in physics and it is expected that probing the high energy and high curvature regimes of gravitating systems will shed some light on how to eventually achieve an ultraviolet complete quantum theory of gravity Such a theory would provide the much needed information about fundamental problems of classical gravity such as the initial big bang singularity the cosmological constant problem Planck scale physics and the early time inflationary evolution of our Universe

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students and researchers alike A brief glossary of terms and functions as well as information explaining how to use the diskette are contained in the appendices Applied General Relativity Michael H. Soffel, Wen-Biao Han, 2019-09-23 In the late 20th and beginning 21st century high precision astronomy positioning and metrology strongly rely on general relativity Supported by exercises and solutions this book offers graduate students and researchers entering those fields a self contained and exhaustive but accessible treatment of applied general relativity. The book is written in a homogenous graduate level textbook style allowing the reader to understand the arguments step by step It first introduces the mathematical and theoretical foundations of gravity theory and then concentrates on its general relativistic applications clock rates clock sychronization establishment of time scales astronomical references frames relativistic astrometry celestial mechanics and metrology The authors present up to date relativistic models for applied techniques such as Satellite LASER Ranging SLR Lunar LASER Ranging LLR Globale Navigation Satellite Systems GNSS Very Large Baseline Interferometry VLBI radar measurements gyroscopes and pulsar timing A list of acronyms helps the reader keep an overview and a Physics Briefs ,1993 mathematical appendix provides required functions and terms An Introduction to General Relativity L. P. Hughston, K. P. Tod, 1990 This textbook provides an introduction to general relativity for mathematics undergraduates or graduate physicists After a review of Cartesian tensor notation and special relativity the concepts of Riemannian differential geometry are introducted More emphasis is placed on an intuitive grasp of the subject and a calculational facility than on a rigorous mathematical exposition General relativity is then presented as a relativistic theory of gravity reducing in the appropriate limits to Newtonian gravity or special relativity. The Schwarzschild solution is derived and the gravitational red shift time dilation and classic tests of general relativity are discussed There is a brief account of gravitational collapse and black holes based on the extended Schwarzchild solution Other vacuum solutions are described motivated by their counterparts in linearised general relativity The book ends with chapters on cosmological solutions to the field equations There are exercises attached to each chapter some of which extend the development given in the text

Simon Stevin; ,1991

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