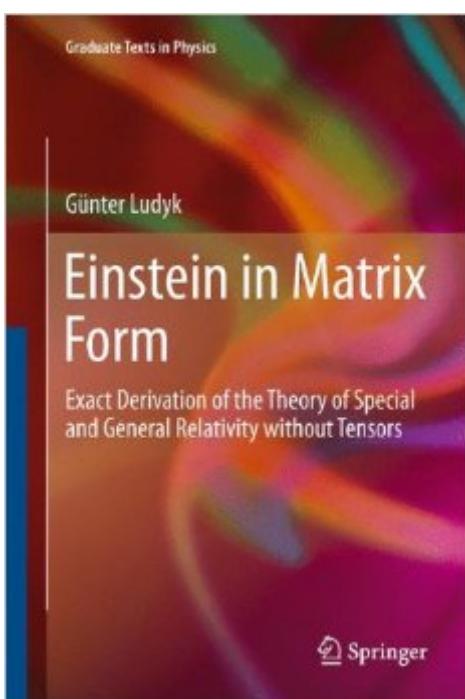


The book was found

Einstein In Matrix Form: Exact Derivation Of The Theory Of Special And General Relativity Without Tensors (Graduate Texts In Physics)



Synopsis

This book is an introduction to the theories of Special and General Relativity. The target audience are physicists, engineers and applied scientists who are looking for an understandable introduction to the topic - without too much new mathematics. The fundamental equations of Einstein's theory of Special and General Relativity are derived using matrix calculus, without the help of tensors. This feature makes the book special and a valuable tool for scientists and engineers with no experience in the field of tensor calculus. In part I the foundations of Special Relativity are developed, part II describes the structure and principle of General Relativity. Part III explains the Schwarzschild solution of spherical body gravity and examines the "Black Hole" phenomenon. Any necessary mathematical tools are user friendly provided, either directly in the text or in the appendices.

Book Information

Series: Graduate Texts in Physics

Hardcover: 194 pages

Publisher: Springer; 2013 edition (June 11, 2013)

Language: English

ISBN-10: 3642357970

ISBN-13: 978-3642357978

Product Dimensions: 6.1 x 0.5 x 9.2 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 3.5 out of 5 starsÂ See all reviewsÂ (2 customer reviews)

Best Sellers Rank: #1,076,491 in Books (See Top 100 in Books) #57 in Books > Science & Math > Chemistry > Physical & Theoretical > Quantum Chemistry #138 in Books > Science & Math > Physics > Gravity #657 in Books > Science & Math > Physics > Mechanics

Customer Reviews

I love the content of this book, it's great to see GTR in matrix form. I will read it from cover to cover, once I get a copy with a cover that's actually glued on correctly. sent me a print on demand copy with the cover glued on cock-eyed. Big gap at the top of the spine, no gap at the bottom. The front and back didn't align when the book is closed, and it made a crackling snappy noise every time I opened and closed the book. I returned it, and will buy it from Barnes and Noble, who say they can get it to me in 24 hours. Let's see if they print it on demand. *Sigh* That's how all of these high end books are coming now, it's a crap shoot every time I order one.*UPDATE* I got a copy through Barnes and Noble - it is also print on demand. BUT, this copy is better than the one I got from .

Different printer. I kept this copy. My only advice is be vigilant about this print on demand stuff. We are no longer getting offset printed books for the sums we pay. It's a shame. Book quality took a hit while prices are the same, so someone's pocketing the difference at our expense. I've received so many poorly printed books this year that I cancelled Prime for 2015.

Tensors are important in Relativity because they insure that equations have the same form on every frame of reference. That is a corner stone in Relativity. To use the theory you will choose one referential and the second order tensors became matrices.

[Download to continue reading...](#)

Einstein in Matrix Form: Exact Derivation of the Theory of Special and General Relativity without Tensors (Graduate Texts in Physics) General Relativity (Graduate Texts in Physics) Transformations Of Coordinates, Vectors, Matrices And Tensors Part I: LAGRANGE'S EQUATIONS, HAMILTON'S EQUATIONS, SPECIAL THEORY OF RELATIVITY AND CALCULUS ... Mathematics From 0 And 1 Book 16) Gravity: An Introduction to Einstein's General Relativity Relativity: The Special and the General Theory Theoretical Physics 4: Special Theory of Relativity Advanced Physics of Electron Transport in Semiconductors and Nanostructures (Graduate Texts in Physics) A Survey of Matrix Theory and Matrix Inequalities (Dover Books on Mathematics) Understanding Einstein's Theories of Relativity: Man's New Perspective on the Cosmos Relativity: Special, General, and Cosmological Many-Body Quantum Theory in Condensed Matter Physics: An Introduction (Oxford Graduate Texts) The Physics and Philosophy of the Bible: How Relativity, Quantum Physics, Plato, and History Meld with Biblical Theology to Show That God Exists and That ... Live Forever (The Inevitable Truth Book 1) Quien fue Albert Einstein? / Who Was Albert Einstein? (Spanish Edition) Ace General Chemistry I and II (The EASY Guide to Ace General Chemistry I and II): General Chemistry Study Guide, General Chemistry Review Ace General Chemistry I: The EASY Guide to Ace General Chemistry I: (General Chemistry Study Guide, General Chemistry Review) The Perfect Theory: A Century of Geniuses and the Battle over General Relativity Electrodynamics: The Field-Free Approach: Electrostatics, Magnetism, Induction, Relativity and Field Theory (Undergraduate Lecture Notes in Physics) Noise Theory and Application to Physics: From Fluctuations to Information (Advanced Texts in Physics) A dictionary of scientific terms : pronunciation, derivation, and definition of terms in biology, botany, zoology, anatomy, cytology, embryology, physiology The Essential Guide to the ACT Matrix: A Step-by-Step Approach to Using the ACT Matrix Model in Clinical Practice

[Dmca](#)