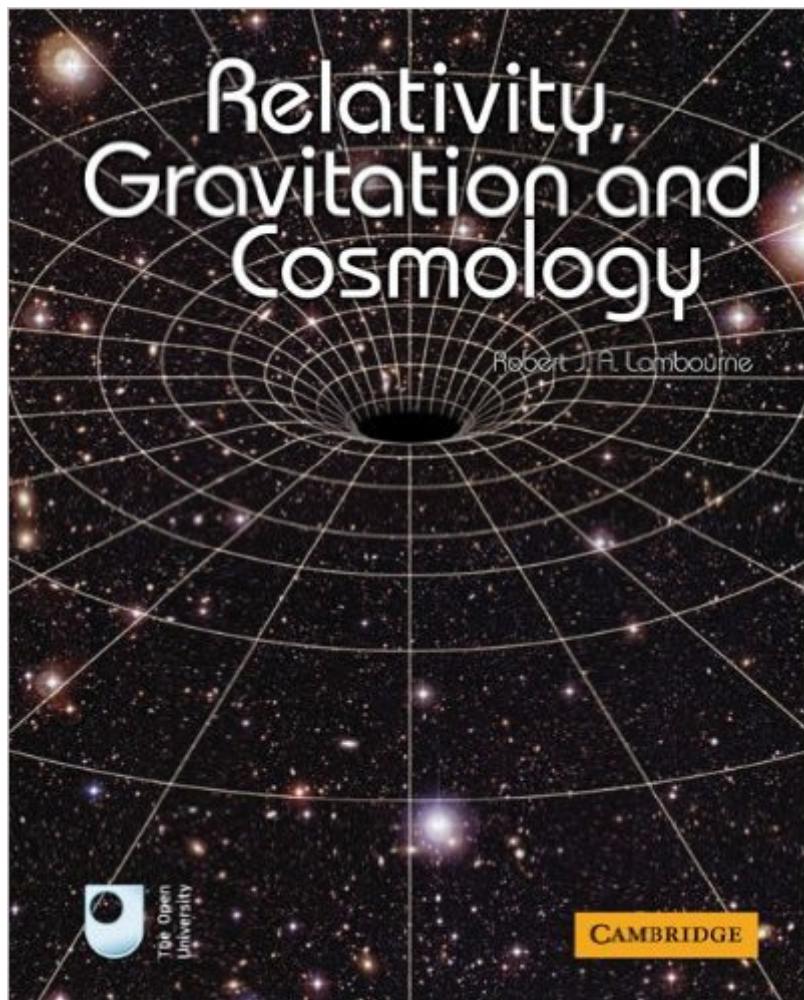


The book was found

Relativity, Gravitation And Cosmology



Synopsis

Aimed at advanced undergraduates, this self-contained textbook covers the key ideas of special and general relativity together with their applications. The textbook introduces students to basic geometric concepts, such as metrics, connections and curvature, before examining general relativity in more detail. It shows the observational evidence supporting the theory, and the description general relativity provides of black holes and cosmological space-times. The textbook is in full colour, with numerous worked examples and exercises with solutions. Key points and equations are highlighted for easy identification, and each chapter ends with a summary list of important concepts and results. This textbook provides the essential background for an up-to-date discussion of modern observational cosmology. Each chapter builds on the previous one as concepts are developed, making it ideal for self-study. Accompanying resources to this textbook are available at: <http://www.cambridge.org/features/astrophysics>.

Book Information

Paperback: 312 pages

Publisher: Cambridge University Press; 1 edition (July 26, 2010)

Language: English

ISBN-10: 0521131383

ISBN-13: 978-0521131384

Product Dimensions: 8.3 x 0.8 x 10.4 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars (See all reviews) (6 customer reviews)

Best Sellers Rank: #607,432 in Books (See Top 100 in Books) #61 in Books > Science & Math > Physics > Gravity #250 in Books > Science & Math > Physics > Relativity #618 in Books > Science & Math > Astronomy & Space Science > Cosmology

Customer Reviews

on the reader but covering the basics in a pedagogically skillful manner. I have not read all of this book, but I have read enough to recommend it to those who want to go beyond popular explanations but are somewhat intimidated by the standard, frequently recommended introductions, e.g., Schutz's *A First Course in General Relativity*, Hartle's *Gravity: An Introduction to Einstein's General Relativity* or Cheng's *Relativity, Gravitation and Cosmology: A Basic Introduction* (Oxford Master Series in Physics). Update 10/02/2012: Just noticed there is a very detailed ToC is available in pdf form from the publisher's

website. I am

keeping my less detailed ToC below in case that's more convenient. Here's the Table of Contents: Ch.1 Special Relativity and Spacetime [11 - 44]: 1.1 Basic concepts 1.2 Coordinate transformations 1.3 Consequences of Lorentz transformation 1.

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

Relativity, Gravitation and Cosmology Group Theory for the Standard Model of Particle Physics and Beyond (Series in High Energy Physics, Cosmology and Gravitation) Gravitation: Foundations and Frontiers The Trial of Galileo: Aristotelianism, the "New Cosmology," and the Catholic Church, 1616-1633 (Reacting to the Past) The Unknown Universe: A New Exploration of Time, Space and Cosmology The Lost World of Genesis One: Ancient Cosmology and the Origins Debate Quadrivium: The Four Classical Liberal Arts of Number, Geometry, Music, & Cosmology (Wooden Books) Applied Bohmian Mechanics: From Nanoscale Systems to Cosmology Cosmology: A Very Short Introduction Albert Einstein and Relativity for Kids: His Life and Ideas with 21 Activities and Thought Experiments (For Kids series) The Hunt for Vulcan: ...And How Albert Einstein Destroyed a Planet, Discovered Relativity, and Deciphered the Universe Albert Einstein and the Theory of Relativity (Solutions) Four Lectures on Relativity and Space - Scholar's Choice Edition Relativity: The Special and General Theory What Is Relativity?: An Intuitive Introduction to Einstein's Ideas, and Why They Matter Newton to Einstein: The Trail of Light: An Excursion to the Wave-Particle Duality and the Special Theory of Relativity Geometry, Relativity and the Fourth Dimension (Dover Books on Mathematics) Spacetime and Geometry: An Introduction to General Relativity Relativity: The Special and the General Theory, 100th Anniversary Edition Six Not-So-Easy Pieces: Einstein's Relativity, Symmetry, and Space-Time

[Dmca](#)