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The General Theory of Relativity - Christopher Monroe

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Relativity: The Special and General Theory - ibiblio

General relativity (GR, also known as the general theory of relativity or GTR) is the geometric theory of gravitation published by Albert Einstein in 1915 and the current description of gravitation in modern physics.

General relativity - Wikipedia

  R. Wald, General Relativity (Chicago, 1984) [***]. Thorough discussions of a number of advanced topics, including black holes, global structure, and spinors. The approach is more mathematically demanding than the previous books, and the basics are covered pretty quickly.

Lecture Notes on General Relativity - arXiv

Prologue General relativity is a beautiful scheme for describing the gravitational field and the equations it obeys. Nowadays this theory is often used as a prototype for other, more

INTRODUCTION TO GENERAL RELATIVITY

Massachusetts Institute of Technology Department of Physics Physics 8.962 Spring 1999 Introduction to Tensor Calculus for General Relativity c 1999 Edmund Bertschinger.

Introduction to Tensor Calculus for General Relativity

A No-Nonsense Introduction to General Relativity Sean M. Carroll Enrico Fermi Institute and Department of Physics, University of Chicago, Chicago, IL, 60637 carroll@theory.uchicago.edu c 2001 1. 1 Introduction General relativity (GR) is the most beautiful physical theory ever invented. Nevertheless,

A No-Nonsense Introduction to General Relativity

Lecture Notes on General Relativity Matthias Blau Albert Einstein Center for Fundamental Physics Institut f r Theoretische Physik Universit t Bern

Lecture Notes on General Relativity - Portal

Albert Einstein 5 Preface (December, 1916) The present book is intended, as far as possible, to give an exact insight into the theory of Relativity to those readers who, from a general scientific and philosophical point of view,

Albert Einstein - Marxists Internet Archive

General relativity is a theory of gravitation that was developed by Albert Einstein between 1907 and 1915. According to general relativity, ... Ashby, Neil (2002), "Relativity and the Global Positioning System" (PDF),

Introduction to general relativity - Wikipedia

Introduction General Relativity is the classical theory that describes the evolution of systems under the effect of gravity. Its history goes back to 1915 when Einstein postulated that the laws of

Lecture Notes on General Relativity Columbia University

Einstein's theory of general relativity predicted that the space-time around Earth would be not only warped but also twisted by the planet's rotation. Gravity Probe B showed this to be correct ...

Einstein's Theory of General Relativity: A Simplified

GENERAL RELATIVITY: (in a nutshell) Masses tell spacetime how to curve. Spacetime, with its curvature, tells masses how to move. [Image from "Spacetime and Gravity" by S. Carroll] [Image by R. Jantzen]
SUMMARY OF THE PREDICTIONS OF Time Dilation Gravitational Redshift Light

GENERAL RELATIVITY - Einstein 1915

General relativity was Einstein's theory of gravity, published in 1915, which extended special relativity to take into account non-inertial frames of reference – areas that are accelerating with respect to each other. General relativity takes the form of field equations, describing the curvature ...

Einstein's General Relativity Theory: Gravity as Geometry

Einstein in 1916, just after his completion of the general theory of relativity. The special theory of relativity was a first step for Einstein. The fuller development of his goal of relativizing physics came with his general theory of relativity.

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