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General Relativity Without Calculus 13 interpret them): ( $t' = \gamma t - vx/c^2$ ,  $x' = \gamma(x - vt)$  where  $c$  represents the speed of light (about 300,000 kilometers per second) and  $\gamma = 1/\sqrt{1 - v^2/c^2}$ . The special theory of relativity, developed by Einstein in 1905, boils down to analyzing the consequences of these transformations.

### GeneralRelativityWithoutCalculus

General relativity (GR), also known as the general theory of relativity (GTR), is the geometric theory of gravitation published by Albert Einstein in 1915 and the current description of gravitation in modern physics.General relativity generalizes special relativity and refines Newton's law of universal gravitation, providing a unified description of gravity as a geometric property of space and ...

### General relativity - Wikipedia

"General relativity without tensors" PH30101 General Relativity Prof Tim Birks "General relativity without tensors" General relativity (GR) states that spacetime is deformed by gravitating masses. Freely-moving objects follow straight lines (or their nearest equivalents) in this curved spacetime, even in the presence of gravity.

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### General Relativity Without Calculus - NASA/ADS

In general relativity, Regge calculus is a formalism for producing simplicial approximations of spacetimes that are solutions to the Einstein field equation. The calculus was introduced by the Italian theoretician Tullio Regge in 1961. Overview. The starting point for Regge's work ...

### Regge calculus - Wikipedia

@MISC{Natario,generalrelativity, author = {José Natário}, title = {General Relativity Without Calculus A Concise Introduction to the Geometry of Relativity}, year = {} } Share. OpenURL . Abstract. February 14, 2012To my uncle Joaquim, who first told me how far the stars really are, and to my father, my first and best teacher. Preface This ...

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General Relativity Without Calculus by Jose Natario. Publisher: Springer 2012 ISBN/ASIN: B008CNBUNS Number of pages: 120. Description: This book was written as a guide for a one week course aimed at exceptional students in their final years of secondary education.

### General Relativity Without Calculus - Download link

Manifolds Generally speaking, a manifoldis a space that with curvature and complicated topology that locallylooks like Rn. Examples: Rn itself. R is a line and R2 a plane. The n-sphere, Sn; that is, the locus of all points some fixed distance from the origin in Rn+ 1.S1 is a circle and S2 sphere. The n-torus Tn.T2 is the surface of a doughnut. A Riemann surface of genus g.

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