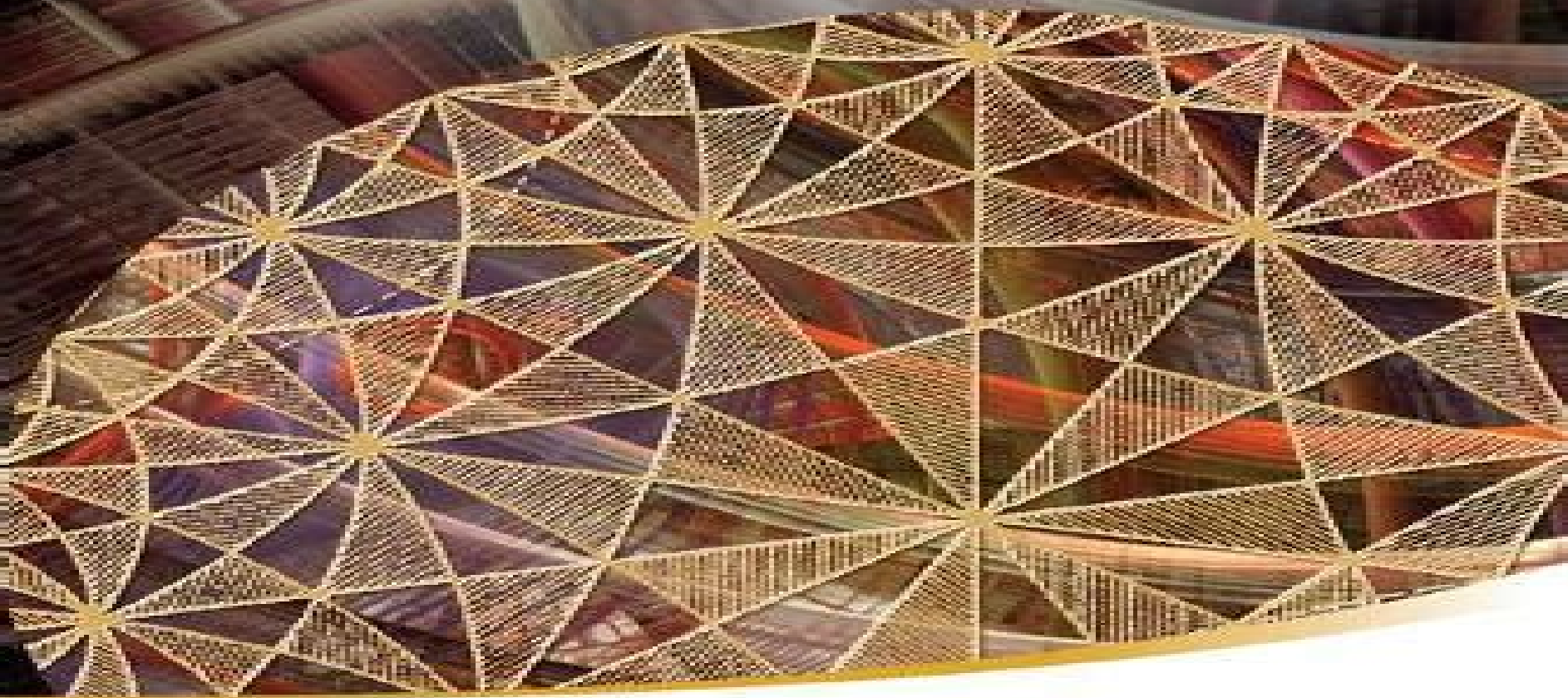


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A NEW PERSPECTIVE ON RELATIVITY

An Odyssey in Non-Euclidean Geometries



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Thomas W. Sills



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What happens when you push a theory beyond its limits You get a theory like general relativity Although coined by Einstein he would be hard pressed to recognize it Einstein constructed a theory that would pertain to geodesic motion or motion at constant velocity Einstein field equations are equivalent to geometrical optics whose characteristic surfaces are those of electromagnetic and not gravitational radiation In fact gravitational energy is not included in the Einstein energy stress tensor As such it excludes catastrophic phenomena like the merger of black holes or neutron stars In fact black holes are what you get when you extend a non Euclidean metric like the Schwarzschild metric beyond its domain of validity Although there exists no solution to Einstein's field equations for two interacting mass points its numerical counterpart wants at being able to describe binary black hole collisions Such singularities were pernicious to Einstein's conception of the universe and he built bridges to avoid them Nonlinear equations like Einstein's cannot be approximated by their linearization over large portions of spacetime thus placing in doubt the propagation of gravitational waves Any wave phenomenon traveling at a finite velocity must show signs of aberration No signs of such have ever been observed The field equations do not possess a mechanism for the emission of gravitational waves least of all for their attenuation **Where Physics Went Wrong** Bernard H Lavenda, 2015-02-02

The book points out what has gone wrong with physics since Einstein's formulation of this theory of general relativity a century ago It points out inconsistencies and fallacies in the standard model of the big bang and the inflationary scenario which was supposed to have overcome those shortcomings the evolution of string theory from a theory of the strong interaction to a theory of gravitation and quantum mechanics which has not produced a single verifiable prediction and what it has accomplished is reaffirming

wrong results like the entropy of a black hole which is not an entropy at all There have even been attempts to demote gravity to an emergent phenomenon with catastrophic effects We know exactly what happened at 10⁻³⁴ seconds after the big bang but do not know how fast gravity propagates whether gravitational waves exist and what are the limits of Newton's law Attempts to rectify this are the prediction of dark energy matter which has never been observed nor ever will and MOND The latter is really not a modification of Newtonian mechanics but a transformation of a dynamical law into a statistical one

Gravitational Optics in Curved Spacetimes: Contrasting Newtonian and Relativistic Perspectives Bernard

Lavenda, 2025-05-26 This book offers a critical appraisal of where we stand on a formulation of a theory of gravitation Newtonian theory is reformulated in the general form of conics and their relation to aberrancy Conics are to planetary orbits what Cassini ovals are to binaries The transition from a Bernoulli lemniscate to Cassini ovals is discussed in terms the instability criteria of Roche lobes and their fission When the second derivative of the curve is no longer constant the Newton inverse law does not apply and new central forces appear which can be derived from the radius of aberrancy just as the inverse square law follows from the radius of curvature The logarithmic spiral becomes periodic in velocity space and a new Hubble law appears between acceleration and velocity This has the effect of decreasing the decay rate of accelerations so that they can explain the flat rotational curvatures observed in spiral galaxies Numerical relativity has reduced its conception of general relativity to a Le Sage type theory thereby making it refutable

The Concept of Time in Early Twentieth-Century Philosophy Flavia Santoianni, 2015-11-26 This book presents a collection of authoritative contributions

on the concept of time in early twentieth century philosophy It is structured in the form of a thematic atlas each section is accompanied by relevant elementary logic maps that reproduce in a spatial form the directionalities arguments and or discourses reported on in the text The book is divided into three main sections the first of which covers phenomenology and the perception of time by analyzing the works of Bergson Husserl Sartre Merleau Ponty Deleuze Guattari and Derrida The second section focuses on the language and conceptualization of time examining the works of Cassirer Wittgenstein Heidegger Lacan Ricoeur and Foucault while the last section addresses the science and logic of time as they appear in the works of Guillaume Einstein Reichenbach Prigogine and Barbour The purpose of the book is threefold to provide readers with a comprehensive overview of the concept of time in early twentieth century philosophy to show how conceptual reasoning can be supported by accompanying linguistic and spatial representations and to stimulate novel research in the humanistic field concerning the complex role of graphic representations in the comprehension of concepts

Scale Transitions As Foundations Of Physics Ioan Merches, Maricel Agop, Nicolae Mazilu, 2021-02-04 The scale transitions are essential to

physical knowledge The book describes the history of essential moments of physics viewed as necessary consequences of the unavoidable process of scale transition and provides the mathematical techniques for the construction of a theoretical physics founded on scale transition The indispensable mathematical technique is analyticity helping in the construction of

space coordinate systems The indispensable theoretical technique from physical point of view is the affine theory of surfaces The connection between the two techniques is provided by a duality in defining the physical properties *A Mathematical Journey to Relativity* Wladimir-Georges Boskoff, Salvatore Capozziello, 2021-06-02 This book opens with an axiomatic description of Euclidean and non Euclidean geometries Euclidean geometry is the starting point to understand all other geometries and it is the cornerstone for our basic intuition of vector spaces The generalization to non Euclidean geometry is the following step to develop the language of Special and General Relativity These theories are discussed starting from a full geometric point of view Differential geometry is presented in the simplest way and it is applied to describe the physical world The final result of this construction is deriving the Einstein field equations for gravitation and spacetime dynamics Possible solutions and their physical implications are also discussed the Schwarzschild metric the relativistic trajectory of planets the deflection of light the black holes the cosmological solutions like de Sitter Friedmann Lemaître Robertson Walker and Gödel ones Some current problems like dark energy are also sketched The book is self contained and includes details of all proofs It provides solutions or tips to solve problems and exercises It is designed for undergraduate students and for all readers who want a first geometric approach to Special and General Relativity **What Einstein Did Not See** Thomas W. Sills, 2009 Today physics sees time and space as two words that seem to defy definition One unique definition for each of these words will not help to describe the complex nature of time and space Further definitions for time and space require more than seeing how they interrelate with each other One uses different mathematical geometries to describe space Understanding these different geometries provides a better approach to defining both time and space In the seventeenth century Euclidean geometry limited Isaac Newton to a three dimensional space Two parallel lines will never merge epitomizes Euclidean geometry In the nineteenth century new geometry evolved Sometimes called non Euclidean or Riemann geometry this new geometry applies to space with more than three dimensions Einstein used this geometry in his theory of general relativity Two parallel lines will merge epitomizes non Euclidean geometry This book presents a new approach to both time and space For the first time readers will see how Euclidean geometry can describe space with more than three dimensions This new approach redefines time into two different components a vector of Timespace and a scalar of Universal Time Amazing insights result from this new approach Three dimensional projections from four dimensional Euclidean space can now visually illustrate time travel Contraction of Timespace the fourth physical dimension becomes equivalent to Einstein's time dilation General knowledge of Euclidean geometry allows the reader to understand the complex nature of higher dimensions in a new way Readers enjoy a friendly informative walk into four and higher dimensions of space New ideas in this book revise conventional physics These ideas transform the three dimensional world of conventional physics into a four dimensional physical world *Relativity and Geometry* Roberto Torretti, 1996-01-01 Early in this century it was shown that the new non Newtonian physics known as Einstein's Special Theory of Relativity rested on a new non Euclidean geometry

which incorporated time and space into a unified chronogeometric structure This high level study elucidates the motivation and significance of the changes in physical geometry brought about by Einstein in both the first and the second phase of Relativity After a discussion of Newtonian principles and 19th century views on electrodynamics and the aether the author offers illuminating expositions of Einstein's electrodynamics of moving bodies Minkowski spacetime Einstein's quest for a theory of gravity gravitational geometry the concept of simultaneity time and causality and other topics An important Appendix designed to define spacetime curvature considers differentiable manifolds fiber bundles linear connections and useful formulae Relativity continues to be a major focus of interest for physicists mathematicians and philosophers of science This highly regarded work offers them a rich historico critical exposition emphasizing geometrical ideas of the elements of the Special and General Theory of Relativity *Understanding Einstein's Theories of Relativity* Stan Gibilisco, 1983 Einstein's theory is presented in a simplified manner Upper level high school students who are technically inclined should find it interesting and within their grasp

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