

The Relativity Of All Things Beyond Spacetime

General Relativity Robert M. Wald.2010-05-15 Wald's book is clearly the first textbook on general relativity with a totally modern point of view; and it succeeds very well where others are only partially successful. The book includes full discussions of many problems of current interest which are not treated in any extant book, and all these matters are considered with perception and understanding.—S. Chandrasekhar A tour de force: lucid, straightforward, mathematically rigorous, exacting in the analysis of the theory in its physical aspect.—L. P. Hughston, Times Higher Education Supplement Truly excellent. . . . A sophisticated text of manageable size that will probably be read by every student of relativity, astrophysics, and field theory for years to come.—James W. York, Physics Today

What Is Relativity? Jeffrey Bennett.2014-02-25 An astrophysicist offers an entertaining introduction to Einstein's theories, explaining how well they have held up to rigorous testing over the years, and even describing the amazing phenomena readers would actually experience if they took a trip through a black hole.

Concepts of Simultaneity Max Jammer.2006-09-12 Publisher description

Six Not-So-Easy Pieces Richard P. Feynman,Robert B. Leighton,Matthew Sands.2011-03-22 No twentieth-century American scientist is better known to a wider spectrum of people than Richard P. Feynman (1918-1988) -- physicist, teacher, author, and cultural icon. His autobiographies and biographies have been read and enjoyed by millions of readers around the world, while his wit and eccentricities have made him the subject of TV specials and even a theatrical film. The spectacular reception of the book and audio versions of Feynman's Six Easy Pieces (published in 1995) resulted in a worldwide clamor for More Feynman! More Feynman! The outcome is these six additional lectures, drawn from the celebrated three-volume Lectures on Physics. Though slightly more challenging than the first six, these lectures are more focused, delving into the most revolutionary discovery in twentieth-century physics: Einstein's Theory of Relativity. No single breakthrough in twentieth-century physics (with the possible exception of quantum mechanics) changed our view of the world more than that of Einstein's discovery of relativity. The notions that the flow of time is not a constant, that the mass of an object depends on its velocity, and that the speed of light is a constant no matter what the motion of the observer, at first seemed shocking to scientists and laymen alike. But, as Feynman shows so clearly and so entertainingly in the lectures chosen for this volume, these crazy notions are no mere dry principles of physics, but are things of beauty and elegance. No one -- not even Einstein himself -- explained these difficult, anti-intuitive concepts more clearly, or with more verve and gusto, than Richard Feynman.

Einstein's Unfinished Revolution Lee Smolin.2019-04-09 A daring new vision of the quantum universe, and the scandals controversies, and questions that may illuminate our future--from Canada's leading mind on contemporary physics. Quantum physics is the golden child of modern science. It is the basis of our understanding of atoms, radiation, and so much else, from elementary particles and basic forces to the behaviour of materials. But for a century it has also been the problem child of science, plagued by intense disagreements between its intellectual giants, from Albert Einstein to Stephen Hawking, over the strange paradoxes and implications that seem like the stuff of fantasy. Whether it's Schrödinger's cat--a creature that is simultaneously dead and alive--or a belief that the world does not exist independently of our observations of it, quantum theory is what challenges our fundamental assumptions about our reality. In Einstein's Unfinished Revolution, globally renowned theoretical physicist Lee Smolin provocatively argues that the problems which have bedeviled quantum physics since its inception are unsolved for the simple reason that the theory is incomplete. There is more, waiting to be discovered. Our task--if we are to have simple answers to our simple questions about the universe we live in--must be to go beyond it to a description of the world on an atomic scale that makes sense. In this vibrant and accessible book, Smolin takes us on a journey through the basics of quantum physics, introducing the stories of the experiments and figures that have transformed the field, before wrestling with the puzzles and conundrums that they present. Along the way, he illuminates the existing theories about the quantum world that might solve these problems, guiding us toward his own vision that embraces common sense realism. If we are to have any hope of completing the revolution that Einstein began nearly a century ago, we must go beyond quantum mechanics as we know it to find a theory that will give us a complete description of nature. In Einstein's Unfinished Revolution, Lee Smolin brings us a step closer to resolving one of the greatest scientific controversies of our age.

Relativity in Curved Spacetime Eric Baird.2007 Relativity theory has become one of the icons of Twentieth Century science. It's reckoned to be a difficult subject, taught as a layered series of increasingly difficult mathematics and increasingly abstract concepts. We're told that relativity theory is supposed to be this complicated and counter-intuitive. But how much of this historical complexity is really necessary? Can we bypass the interpretations and paradoxes and pseudoparadoxes of Einstein's special theory and jump directly to a deeper and more intuitive description of reality? What if curvature is a fundamental part of physics, and a final theory of relativity shouldn't reduce to Einstein's flat 1905 theory //on principle//? Relativity... takes us on a whistlestop tour of Twentieth Century physics - from black holes, quantum mechanics, wormholes and the Big Bang to the workings of the human mind, and asks: what would physics look like without special relativity? 394 printed pages, 234156 mm, ~200 figures and illustrations, includes bibliography and index
www.relativitybook.com

Quantum Non-Locality and Relativity Tim Maudlin.2008-04-15 Modern physics was born from two great revolutions: relativity and the quantum theory. Relativity imposed a locality constraint on physical theories: since nothing can go faster than light, very distant events cannot influence one another. Only in the last few decades has it become clear that the quantum theory violates this constraint. The work of J.S. Bell has demonstrated that no local theory can return the predictions of quantum theory. Thus it would seem that the central pillars of modern physics are contradictory.

The Nature of Space and Time Stephen Hawking,Roger Penrose.2010-02-08 From two of the world's great physicists—Stephen Hawking and Nobel laureate Roger Penrose—a lively debate about the nature of space and time Einstein said that the most incomprehensible thing about the universe is that it is comprehensible. But was he right? Can the quantum theory of fields and Einstein's general theory of relativity, the two most accurate and successful theories in all of physics, be united into a single quantum theory of gravity? Can quantum and cosmos ever be combined? In *The Nature of Space and Time*, two of the world's most famous physicists—Stephen Hawking (*A Brief History of Time*) and Roger Penrose (*The Road to Reality*)—debate these questions. The authors outline how their positions have further diverged on a number of key issues, including the spatial geometry of the universe, inflationary versus cyclic theories of the cosmos, and the black-hole information-loss paradox. Though much progress has been made, Hawking and Penrose stress that physicists still have further to go in their quest for a quantum theory of gravity.

The Labyrinth of Time Michael Lockwood.2007-07-26 Modern physics has revealed the universe as a much stranger place than we could have imagined. The puzzle at the centre of our knowledge of the universe is time. Michael Lockwood takes the reader on a fascinating journey into the nature of things. He investigates philosophical questions about past, present, and future, our experience of time, and the possibility of time travel. And he provides the most careful, lively, and up-to-date introduction to the physics of time and the structure of the universe.He guides us step by step through relativity theory and quantum physics, introducing and explaining the ground-breaking ideas of Newton and Boltzmann, Einstein and Schroedinger, Penrose and Hawking. We zoom in on the behaviour of molecules and atoms, and pull back to survey the expansion of the universe. We learn about entropy and gravity, black holes and wormholes, about how it all began and where we are all headed. Lockwood's aim is not just to boggle the mind but to lead us towards an understanding of the science and philosophy. Things will never seem the same again after a voyage through *The Labyrinth of Time*.

Space-time and Beyond Bob Toben, Fred Alan Wolf. 1982

The GOD Entity Scott S Gordon. 2015-09-18 Theoretical physics has reached an impasse that many feel is a dead end. As the odds of finding evidence for supersymmetry starts to fade, “new” theories have emerged such as “The Multiverse”, “Extra Dimensions”, and “Dimensional Transmutation”. These theories attempt to explain the inexplicable yet at the same time fail to explain the explainable. Many physicists are left frustrated and wondering aloud... How could we have travelled so far down the wrong path? “Any intelligent fool can make things bigger and more complex. It takes a touch of genius - and a lot of courage to move in the opposite direction.” ~ Albert Einstein Engineers know that the right answer is usually a simple one. As Einstein would put it, “The grand aim of all science is to cover the greatest number of empirical facts by logical deduction from the smallest number of hypotheses or axioms.” Gordon’s theory of everything starts with only two postulates; the massless bosons called “Gordon Omnipresent Dots” or “GOD entities” and the E0 energy associated with their initial alignment. These primordial postulates are the only building blocks of a model that explains the inevitable course of events that created our universe. The mathematics created within this process corrects the postulates used to develop the theories of relativity and quantum mechanics which can finally be united and subsequently applied to the infinitesimally small and the infinitely large. We currently use parameters such as distance, time, straight lines, velocity, electric charge, energy fields, and mass. Gordon’s theory of everything begins at a time when none of these parameters existed (prior to the Big Bang). It takes nothing for granted as a predestined process unfolds creating these parameters as they come into existence defined by the evolving mathematics. The Gordon model reveals that energy exists in three separate Gordon energy states described by “The GOD equation”. The interaction between these energy states result in the formation of energy fields and the creation of all forces. Most importantly, the structure of space-time from the previously unrecognized G0 energy state provides the solid foundation upon which we are able to build a new understanding of everything in the universe. The simplicity and elegance of Gordon’s theory of everything will astonish everyone as everything falls into place. The purpose of this book is to put the field of physics on a theoretically sound foundation. The structures of the first few fundamental particles and the energy fields they generate are just the beginning. You will have the opportunity to make major contributions. Starting where this book leaves off at the up quark and electron, the race is on to find the internal structure of a neutron and all the particles of the standard model. Don’t be left behind... Be among the first to read Scott S Gordon’s, “The GOD Entity: Gordon’s Theory of Everything”

100 Years of Relativity Abhay Ashtekar. 2005 Thanks to Einstein's relativity theories, our notions of space and time underwent profound revisions about a 100 years ago. The resulting interplay between geometry and physics has dominated all of fundamental physics since then. This volume contains contributions from leading researchers, worldwide, who have thought deeply about the nature and consequences of this interplay. The articles take a long-range view of the subject and distill the most important advances in broad terms, making them easily accessible to non-specialists. The first part is devoted to a summary of how relativity theories were born (J Stachel). The second part discusses the most dramatic ramifications of general relativity, such as black holes (P Chrusciel and R Price), space-time singularities (H Nicolai and A Rendall), gravitational waves (P Laguna and P Saulson), the large scale structure of the cosmos (T Padmanabhan); experimental status of this theory (C Will) as well as its practical application to the GPS system (N Ashby). The last part looks beyond Einstein and provides glimpses into what is in store for us in the 21st century. Contributions here include summaries of radical changes in the notions of space and time that are emerging from quantum field theory in curved space-times (Ford), string theory (T Banks), loop quantum gravity (A Ashtekar), quantum cosmology (M Bojowald), discrete approaches (Dowker, Gambini and Pullin) and twistor theory (R Penrose).

Philosophy Beyond Spacetime Christian Wüthrich. 2021 Philosophy Beyond Spacetime assesses the state of play in the philosophy of quantum gravity. Research in this field aims at a unified theory in which quantum matter is related dynamically to relativistic spacetime. This volume highlights the conceptual questions involved, showing how physics and metaphysics can illuminate each other.

Spacetime Physics Edwin F. Taylor, John Archibald Wheeler. 1992-03-15 This thoroughly up-to-date, highly accessible overview covers microgravity, collider accelerators, satellite probes, neutron detectors, radioastronomy, and pulsars.

Scale Relativity and Fractal Space-time Laurent Nottale. 2011 This book provides a comprehensive survey of the state-of-the-art in the development of the theory of scale relativity and fractal space-time. It suggests an original solution to the disunified nature of the classical-quantum transition in physical systems, enabling quantum mechanics to be based on the principle of relativity provided this principle is extended to scale transformations of the reference system. In the framework of such a newly-generalized relativity theory (including position, orientation, motion and now scale transformations), the fundamental laws of physics may be given a general form that goes beyond and integrates the classical and the quantum regimes. A related concern of this book is the geometry of space-time, which is described as being fractal and nondifferentiable. It collects and organizes theoretical developments and applications in many fields, including physics, mathematics, astrophysics, cosmology and life sciences.

The God Equation Michio Kaku. 2021-04-06 #1 NEW YORK TIMES BESTSELLER • The epic story of the greatest quest in all of science—the holy grail of physics that would explain the creation of the universe—from renowned theoretical physicist and author of *The Future of the Mind* and *The Future of Humanity*. When Newton discovered the law of gravity, he unified the rules governing the heavens and the Earth. Since then, physicists have been placing new forces into ever-grandier theories. But perhaps the ultimate challenge is achieving a monumental synthesis of the two remaining theories—relativity and the quantum theory. This would be the crowning achievement of science, a profound merging of all the forces of nature into one beautiful, magnificent equation to unlock the deepest mysteries in science: What happened before the Big Bang? What lies on the other side of a black hole? Are there other universes and dimensions? Is time travel possible? Why are we here? Kaku also explains the intense controversy swirling around this theory, with Nobel laureates taking opposite sides on this vital question. It is a captivating, gripping story; what’s at stake is nothing less than our conception of the universe. Written with Kaku’s trademark enthusiasm and clarity, this epic and engaging journey is the story of *The God Equation*.

God, Stephen Hawking and the Multiverse David Hutchings, David Wilkinson. 2020-01-16 'An astonishingly good read, gripping and thought-provoking' William Lane Craig 'If you wanted to understand Stephen Hawking but couldn't face the maths, this is the book for you.' Dr Althea Wilkinson, Jodrell Bank Stephen Hawking kept breaking rules. Given two years to live, he managed another 54. He wrote about quantum cosmology - and sold 20 million books. He could not speak, yet the world recognized his voice. Hutchings and Wilkinson shine light on his extraordinary ideas. The result is a thought-provoking theological commentary and critique of black holes, origins, many universes, and Big Questions. In 'God, Stephen Hawking and the Multiverse', Hutchings and Wilkinson explain the key elements of Stephen Hawking's physical and mathematical theories, consider their philosophical and religious implications, and relate his ideas to traditional Judaeo-Christian concepts of God. This book about Stephen Hawking and God and the relationship between God and science gives a brief but engaging overview of the history of physics and cosmology. Perfect for beginners, 'God, Stephen Hawking and the Multiverse' offers a concise and accessible introduction to Hawking's work and how his contributions to modern physics and cosmology can complement religion. Exploring topics such as gravity, quantum mechanics and general relativity, the authors offer a fresh perspective on the relationship between God and science, providing a balanced and informed commentary on Hawking's work both scientifically and theologically.

Beyond the Dynamical Universe Michael Silberstein, W. M. Stuckey, Timothy McDevitt. 2018-02-02 Theoretical physics and foundations of physics have not made much progress in the last few decades. Whether we are talking about unifying general relativity and quantum field theory (quantum gravity), explaining so-called dark energy and dark matter (cosmology), or the interpretation and implications of quantum mechanics and relativity, there is no consensus in sight. In addition, both enterprises are deeply puzzled about various facets of time including above all, time as experienced. The authors argue that, across the board, this impasse is the result of the dynamical universe paradigm, the idea that reality is fundamentally made up of physical entities that evolve in time from some initial state according to dynamical laws. Thus, in the dynamical universe, the initial conditions plus the dynamical laws explain everything else going exclusively forward in time. In cosmology, for example, the initial conditions reside in the Big Bang and the dynamical law is supplied by

general relativity. Accordingly, the present state of the universe is explained exclusively by its past. This book offers a completely new paradigm (called Relational Blockworld), whereby the past, present and future co-determine each other via adynamical global constraints, such as the least action principle. Accordingly, the future is just as important for explaining the present as is the past. Most of the book is devoted to showing how Relational Blockworld resolves many of the current conundrums of both theoretical physics and foundations of physics, including the mystery of time as experienced and how that experience relates to the block universe.

Something Deeply Hidden Sean Carroll.2020-09-01 INSTANT NEW YORK TIMES BESTSELLER As you read these words, copies of you are being created. Sean Carroll, theoretical physicist and one of this world's most celebrated writers on science, rewrites the history of twentieth-century physics. Already hailed as a masterpiece, *Something Deeply Hidden* shows for the first time that facing up to the essential puzzle of quantum mechanics utterly transforms how we think about space and time. His reconciling of quantum mechanics with Einstein's theory of relativity changes, well, everything. Most physicists haven't even recognized the uncomfortable truth: Physics has been in crisis since 1927. Quantum mechanics has always had obvious gaps—which have come to be simply ignored. Science popularizers keep telling us how weird it is, how impossible it is to understand. Academics discourage students from working on the dead end of quantum foundations. Putting his professional reputation on the line with this audacious yet entirely reasonable book, Carroll says that the crisis can now come to an end. We just have to accept that there is more than one of us in the universe. There are many, many Sean Carrolls. Many of every one of us. Copies of you are generated thousands of times per second. The Many-Worlds theory of quantum behavior says that every time there is a quantum event, a world splits off with everything in it the same, except in that other world the quantum event didn't happen. Step-by-step in Carroll's uniquely lucid way, he tackles the major objections to this otherworldly revelation until his case is inescapably established. Rarely does a book so fully reorganize how we think about our place in the universe. We are on the threshold of a new understanding—of where we are in the cosmos, and what we are made of.

About Time P. C. W. Davies, Paul Davies.1996-04-09 Examines the ramifications of Einstein's relativity theory, exploring the mysteries of time and considering black holes, time travel, the existence of God, and the nature of the universe.

From Eternity to Here Sean Carroll.2010-10-26 An accessible and engaging exploration of the mysteries of time. -Brian Greene, author of *The Elegant Universe* Twenty years ago, Stephen Hawking tried to explain time by understanding the Big Bang. Now, Sean Carroll says we need to be more ambitious. One of the leading theoretical physicists of his generation, Carroll delivers a dazzling and paradigm-shifting theory of time's arrow that embraces subjects from entropy to quantum mechanics to time travel to information theory and the meaning of life. *From Eternity to Here* is no less than the next step toward understanding how we came to exist, and a fantastically approachable read that will appeal to a broad audience of armchair physicists, and anyone who ponders the nature of our world.

Inside Relativity Delo E. Mook, Thomas Vargish.1987 Here a physicist and a professor of literature guide general readers through the ideas that revolutionized our conception of the physical universe.

Physical Relativity Harvey R. Brown, Oxford University Press.2005-11-24 *Physical Relativity* explores the nature of the distinction at the heart of Einstein's 1905 formulation of his special theory of relativity: that between kinematics and dynamics. Einstein himself became increasingly uncomfortable with this distinction, and with the limitations of what he called the 'principle theory' approach inspired by the logic of thermodynamics. A handful of physicists and philosophers have over the last century likewise expressed doubts about Einstein's treatment of the relativistic behaviour of rigid bodies and clocks in motion in the kinematical part of his great paper, and suggested that the dynamical understanding of length contraction and time dilation intimated by the immediate precursors of Einstein is more fundamental. Harvey Brown both examines and extends these arguments (which support a more 'constructive' approach to relativistic effects in Einstein's terminology), after giving a careful analysis of key features of the pre-history of relativity theory. He argues furthermore that the geometrization of the theory by Minkowski in 1908 brought illumination, but not a causal explanation of relativistic effects. Finally, Brown tries to show that the dynamical interpretation of special relativity defended in the book is consistent with the role this theory must play as a limiting case of Einstein's 1915 theory of gravity: the general theory of relativity. Appearing in the centennial year of Einstein's celebrated paper on special relativity, *Physical Relativity* is an unusual, critical examination of the way Einstein formulated his theory. It also examines in detail certain specific historical and conceptual issues that have long given rise to debate in both special and general relativity theory, such as the conventionality of simultaneity, the principle of general covariance, and the consistency or otherwise of the special theory with quantum mechanics. Harvey Brown's new interpretation of relativity theory will interest anyone working on these central topics in modern physics.

Relativity and the Dimensionality of the World Vesselin Petkov.2007-10-08 The main focus of this volume is the question: is spacetime nothing more than a mathematical space (which describes the evolution in time of the ordinary three-dimensional world) or is it a mathematical model of a real four-dimensional world with time entirely given as the fourth dimension? The book contains fourteen invited papers which either directly address the main question of the nature of spacetime or explore issues related to it.

The Fabric of the Cosmos Brian Greene.2007-12-18 NATIONAL BESTSELLER • From one of the world's leading physicists and author of the Pulitzer Prize finalist *The Elegant Universe*, comes "an astonishing ride" through the universe (The New York Times) that makes us look at reality in a completely different way. Space and time form the very fabric of the cosmos. Yet they remain among the most mysterious of concepts. Is space an entity? Why does time have a direction? Could the universe exist without space and time? Can we travel to the past? Greene has set himself a daunting task: to explain non-intuitive, mathematical concepts like String Theory, the Heisenberg Uncertainty Principle, and Inflationary Cosmology with analogies drawn from common experience. From Newton's unchanging realm in which space and time are absolute, to Einstein's fluid conception of spacetime, to quantum mechanics' entangled arena where vastly distant objects can instantaneously coordinate their behavior, Greene takes us all, regardless of our scientific backgrounds, on an irresistible and revelatory journey to the new layers of reality that modern physics has discovered lying just beneath the surface of our everyday world.

Beyond Spacetime Nick Huggett, Keizo Matsubara, Christian Wüthrich.2020-05-14 A collection of essays discussing the philosophy and foundations of quantum gravity. Written by leading philosophers and physicists in the field, chapters cover the important conceptual questions in the search for a quantum theory of gravity, and the current state of understanding among philosophers and physicists.

Einstein Andrew Robinson.2015-09-22 As the book explains clearly, Einstein's dramatic papers of 1905 overthrew the Newtonian worldview and revolutionized our understanding of space, time, energy, matter, and light. His work had impact far beyond the field of physics, playing a leading role in the century's technological advances and influencing modernism in every field. Except for his last interview that was previously published, all the essays here are original works written especially for this book. The photographs draw on an exceptional archive Einstein bequeathed to Hebrew University in Jerusalem. --Provided by the publisher.

The Power of Principles: Physics Revealed Howard Burton.2020-10-01 This book is based on an in-depth filmed conversation between Howard Burton and Nima Arkani-Hamed, faculty member at the renowned Institute for Advanced Study in Princeton. Nima Arkani-Hamed is one of today's leading particle physicists. In this extensive Ideas Roadshow conversation Nima discusses how we discover the laws of nature, the "scientific method", the relation between theory and experiment and how we can push our understanding well beyond where experiments can currently reach. With his unbridled enthusiasm and engaging eloquence, Nima takes us inside the world of a working theoretical physicist, sharing his frustration at some of the ways that physics is communicated to the general public while revealing how he and his colleagues hope to be steered towards the truth without experiment to guide them. This carefully-edited book includes an introduction, *Beyond Nymphs, Dryads and Leprechauns*, and questions for discussion at the end of each chapter: I. Physics Time Management - Giving it your all II. The Problem with Popularization - Not what it used to be III. In Feynman's Footsteps - A genuine challenge IV. Describing Reality - The latest thing vs. the eternally significant V. A Timeless Community - Walking with Galileo, aided by Weinberg VI. Against Relativism - Science, culture, and truth with a capital "T" VII. Strongly Constrained - The effect of combining relativity and

quantum mechanics VIII. In Search of a Formula - Predicting clicks and theoretical candidates IX. A Principled Example - The inevitability of the Higgs X. Supersymmetry - Platonic convictions XI. Reacting Precipitously - The sad tale of the supposedly superluminal neutrinos XII. Tangled Pillars - The relationship between relativity and quantum theory XIII. The Pull of the Truth - Plunging in, in the right vicinity XIV. Choosing a Better Description - Thinking your way into the future XV. Beyond Space-Time - Mathematics to the rescue? About Ideas Roadshow Conversations Series This book is part of an expanding series of 100+ Ideas Roadshow conversations, each one presenting a wealth of candid insights from a leading expert in a relaxed and informal setting to give non-specialists a uniquely accessible window into frontline research and scholarship that wouldn't otherwise be encountered through standard lectures and textbooks.

Philosophy Beyond Spacetime Christian Wüthrich, Baptiste Le Bihan, Nick Huggett. 2021-08-26 Quantum gravity seeks a unified theory in which quantum matter is dynamically related to generally relativistic spacetime. Although a continuing work in progress, research programmes in the field such as string theory, loop quantum gravity, and causal set theory make it clear that a successful theory of quantum gravity will raise important challenges to our conceptions of space, time, and matter—perhaps abolishing them altogether as fundamental entities. But just as important, there is good reason to think that some of the problems in finding a theory of quantum gravity are themselves conceptual, in need of philosophical analysis. *Philosophy Beyond Spacetime: Implications from Quantum Gravity* assembles original papers from philosophers (and one physicist), establishing a definitive statement of the current state of play, on which future research into this area can build. Aiming to expand knowledge and understanding of the philosophy of quantum gravity, it emphasizes how debates in metaphysics—regarding emergence, composition, or grounding for example—shed light on the conceptual questions of quantum gravity. And conversely, how quantum theories of space and time call into question philosophical views grounded in classical spacetime. Furthermore, the philosophy of quantum gravity raises methodological questions, for instance concerning the relation between physics and metaphysics. The essays have been chosen to demonstrate to a wide range of philosophers the significance of the subject, as well as making novel contributions to it.

The Ontology of Spacetime .2006-07-10 This book contains selected papers from the First International Conference on the Ontology of Spacetime. Its fourteen chapters address two main questions: first, what is the current status of the substantivalism/relationalism debate, and second, what about the prospects of presentism and becoming within present-day physics and its philosophy? The overall tenor of the four chapters of the book's first part is that the prospects of spacetime substantivalism are bleak, although different possible positions remain with respect to the ontological status of spacetime. Part II and Part III of the book are devoted to presentism, eternalism, and becoming, from two different perspectives. In the six chapters of Part II it is argued, in different ways, that relativity theory does not have essential consequences for these issues. It certainly is true that the structure of time is different, according to relativity theory, from the one in classical theory. But that does not mean that a decision is forced between presentism and eternalism, or that becoming has proved to be an impossible concept. It may even be asked whether presentism and eternalism really offer different ontological perspectives at all. The writers of the last four chapters, in Part III, disagree. They argue that relativity theory is incompatible with becoming and presentism. Several of them come up with proposals to go beyond relativity, in order to restore the prospects of presentism. · Space and time in present-day physics and philosophy · Introduction from scratch of the debates surrounding time · Broad spectrum of approaches, coherently represented

The Geometry of Spacetime James J. Callahan. 2013-03-09 Hermann Minkowski recast special relativity as essentially a new geometric structure for spacetime. This book looks at the ideas of both Einstein and Minkowski, and then introduces the theory of frames, surfaces and intrinsic geometry, developing the main implications of Einstein's general relativity theory.

A Theory of Everything (That Matters) Alister McGrath. 2019-10-08 In Light of Today's Scientific Achievements, Do We Need God Anymore? Einstein's revolutionary scientific ideas have transformed our world, ushering in the nuclear age. The current pace of scientific and technological progress is simply astounding. So is there any place for faith in such a world? Einstein himself gave careful thought to the deepest questions of life. His towering intellectual status means he is someone worth listening to when we think through the big questions of life: Can science answer all our questions? Why is religion so important in life? How can we hold together science and faith? In this book, McGrath examines the life and work of Einstein, explaining his scientific significance and considering what Einstein did and did not believe about science, religion, and the meaning of life. *A Theory of Everything (That Matters)* is a must-read for anyone who wants to understand the role of faith in a world where science and technology govern our lives.

The Relativity of All Things Laurent Nottale. 2019-03-28 Translated into English for the first time, this brilliant French bestseller by eminent astrophysicist Laurent Nottale presents the theory of scale relativity, which offers a framework for the unification of quantum theory and relativity through fractal geometry. Updated and revised, with a new afterword by philosopher of science Charles Alunni, *The Relativity of All Things* is the first of Nottale's popularly accessible works available to English-language readers. To describe the ideas of relativity and quantum mechanics without a single mathematical formula is a veritable feat of magic. . . . With a philosophical audacity that only non-philosophers can possess, Nottale finds that the essence of the principle of relativity is in fact the affirmation of the existence of universal laws applied at every scale. . . . His task is enormous. He proposes that the theory of relativity and that of quantum mechanics, with the radical schism between their findings and methods of thinking, can be reconciled. . . . Nottale's methodological innovation is truly revolutionary. To bring it to fruition, he weds the mathematics of fractals with the theory of relativity. . . . Nottale's approach shows us that we are far from the 'end of science': we are perhaps only at its recommencement. Basarab Nicolescu, *Business Digest* Einstein himself explicitly considered that a realistic approach to the quantum problem could go through the introduction of non-differentiability in physics. In 1948, he wrote in a letter to Wolfgang Pauli: 'Maybe someone will find out another possibility, provided he searches with enough perseverance.' Laurent Nottale is very precisely this 'someone'! Read and study this wonderful theory, let yourself be carried away by its beauty, its depth, and its major experimental implications, which are nothing less than fundamental for the future of science, and for philosophy. Charles Alunni, Director, Laboratoire Disciplinaire Pensée des Sciences at the École Normale Supérieure Since the birth of quantum theory, physicists have been challenged with the development of a unified theory of quantum mechanics and relativity, with no general consensus on the best way forward. To progress further, we have to confront deep questions about space and time, quantum theory, and cosmology, which take theory back into contact with experiment. The theory of scale relativity offers a serious contribution to the debate on unification, offering an intuitive insight into how these theories could be fundamentally linked through space-time geometry. Philip Turner, Director, Centre for Plant Science and Biopolymer Research, Edinburgh Napier University Laurent Nottale proposes that we look at the concept of fractals to make relativity, extended further yet, the fundamental principle on which to base quantum mechanics. After the relativity of time and space, he has tackled the relativity of scale, putting into question much of what we thought we knew. Pierre Bonnaure, *Futuribles* Developments in geometry have often enabled progress in physics, especially when concerning relativity. Non-Euclidean geometry, geometrical systems where the plane is a sphere, made it possible for Einstein to devise his theory of curved space. Today, a new geometry, fractal geometry, allows us to propose a theory of fractal space. *Idées clés*, by *Business Digest*

Entropic Spacetime Theory Jack Armel. 1996 This book sets up a discrete universe with minimum and maximum dimensions. Singularity is rejected. *Entropic Spacetime Theory* divides the universe into a kinetic system and an entropic spacetime. The kinetic system is what our present physics is all about; it deals with radiation (vector bosons) and mass particles (fermions). Relativity and quantum mechanics deal almost entirely in the kinetic system. The entropic spacetime (EST) defines space; in this theory there is no vacuum? EST is space. Made up of energy and dipole charges, its values can be converted into length and time. The theory offers a new description of space, a new cosmology, names space as the original creator of all new matter and radiation.

Quantum Space Jim Baggott. 2018-11-08 Today we are blessed with two extraordinarily successful theories of physics. The first is Albert Einstein's general theory of relativity, which describes the large-scale behaviour of matter in a curved spacetime. This theory is the basis for the standard model of big bang cosmology. The discovery of gravitational waves at the LIGO observatory in the US (and then Virgo, in Italy) is only the most recent of this theory's many triumphs. The second is quantum mechanics. This theory describes the properties and behaviour of matter and radiation at their smallest scales. It is the basis for the standard model of

particle physics, which builds up all the visible constituents of the universe out of collections of quarks, electrons and force-carrying particles such as photons. The discovery of the Higgs boson at CERN in Geneva is only the most recent of this theory's many triumphs. But, while they are both highly successful, these two structures leave a lot of important questions unanswered. They are also based on two different interpretations of space and time, and are therefore fundamentally incompatible. We have two descriptions but, as far as we know, we've only ever had one universe. What we need is a quantum theory of gravity. Approaches to formulating such a theory have primarily followed two paths. One leads to String Theory, which has for long been fashionable, and about which much has been written. But String Theory has become mired in problems. In this book, Jim Baggott describes : an approach which takes relativity as its starting point, and leads to a structure called Loop Quantum Gravity. Baggott tells the story through the careers and pioneering work of two of the theory's most prominent contributors, Lee Smolin and Carlo Rovelli. Combining clear discussions of both quantum theory and general relativity, this book offers one of the first efforts to explain the new quantum theory of space and time.

Beyond Measure J. E. Baggott.2004 Presents the problems of quantum theory from the perspective of mathematical formalism. -- Back cover.

The Order of Time Carlo Rovelli.2018-05-08 One of TIME's Ten Best Nonfiction Books of the Decade Meet the new Stephen Hawking . . . The Order of Time is a dazzling book. --The Sunday Times From the bestselling author of Seven Brief Lessons on Physics, Reality Is Not What It Seems, and Helgoland, comes a concise, elegant exploration of time. Why do we remember the past and not the future? What does it mean for time to flow? Do we exist in time or does time exist in us? In lyric, accessible prose, Carlo Rovelli invites us to consider questions about the nature of time that continue to puzzle physicists and philosophers alike. For most readers this is unfamiliar terrain. We all experience time, but the more scientists learn about it, the more mysterious it remains. We think of it as uniform and universal, moving steadily from past to future, measured by clocks. Rovelli tears down these assumptions one by one, revealing a strange universe where at the most fundamental level time disappears. He explains how the theory of quantum gravity attempts to understand and give meaning to the resulting extreme landscape of this timeless world. Weaving together ideas from philosophy, science and literature, he suggests that our perception of the flow of time depends on our perspective, better understood starting from the structure of our brain and emotions than from the physical universe. Already a bestseller in Italy, and written with the poetic vitality that made Seven Brief Lessons on Physics so appealing, The Order of Time offers a profoundly intelligent, culturally rich, novel appreciation of the mysteries of time.

Humanism and its Discontents Paul Jorion.2022-02-12 This book explains that while posthumanism rose in opposition to the biblical contention that 'Man was created in the image of God', transhumanism ascertained the complementary view that 'Man has been assigned dominion over all creatures', further exploring a path that had been opened up by the Enlightenment's notion of human perfectibility. It explains also how posthumanism and transhumanism relate to deconstruction theory, and on a broader level to capitalism, libertarianism, and the fight against human extinction which may involve trespassing the boundary of the skin, achieving individual immortality or dematerialization of the Self and colonisation of distant planets and stars. Two authors debate about truth and reason in today's world, the notion of personhood and the legacy of the Nietzschean Superhuman in the current varieties of anti-humanism.

It's About Time N. David Mermin.2009-07-06 In It's About Time, N. David Mermin asserts that relativity ought to be an important part of everyone's education--after all, it is largely about time, a subject with which all are familiar. The book reveals that some of our most intuitive notions about time are shockingly wrong, and that the real nature of time discovered by Einstein can be rigorously explained without advanced mathematics. This readable exposition of the nature of time as addressed in Einstein's theory of relativity is accessible to anyone who remembers a little high school algebra and elementary plane geometry. The book evolved as Mermin taught the subject to diverse groups of undergraduates at Cornell University, none of them science majors, over three and a half decades. Mermin's approach is imaginative, yet accurate and complete. Clear, lively, and informal, the book will appeal to intellectually curious readers of all kinds, including even professional physicists, who will be intrigued by its highly original approach.

Einstein's Genie Graham Nerlich.2013-08-23 This book is about spacetime, and how, in General Relativity, it performs its widely accepted role of explaining all the phenomena of gravity. Space and time have long been contentious presences in theories of mechanics because of their metaphysical peculiarities. Philosophical worries continue to fog a clear understanding of just how spacetime performs this role. In early sections of his revolutionary paper of 1916, Einstein claimed that his use of a new style of formulation removes the last remnant of physical objectivity from space and time. His satisfaction in banishing these metaphysical anxieties was evident. However in 1917 it was shown his claim was ungrounded. He readily accepted the criticism: it left intact all the maths and physics of the theory. These amply justify the widespread, orthodox view of spacetime's fundamental role in the theory. Einstein banished no demon but rather released a genie - spacetime. However, his hostility continued, resulting in attempts to rewrite the role of spacetime. These had some later influence but never caught on. Einstein set supreme importance on the role of imagination in scientific theory and valued it as his most significant gift. In science, perhaps in culture generally, relativity is unsurpassed in its imaginative conceptual daring. Yet he and others paused at its metaphysical novelty and radicalism: hostility to spacetime persists. This book presents an unqualified philosophical defence of the conceptual coherence and uniqueness of spatiotemporality. It offers an alternative to the relationist/substantialist dilemma; it explains Minkowski's derivation of spacetime without the light postulate; it defends, clarifies and stresses the deep role of spacetime in the standard novelties of both relativity theories. A study of spacetime in relativity shows how an insubstantial entity can nevertheless be concrete. That solves the metaphysical worry over its intelligibility and reveals it as fundamental to ontology.

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