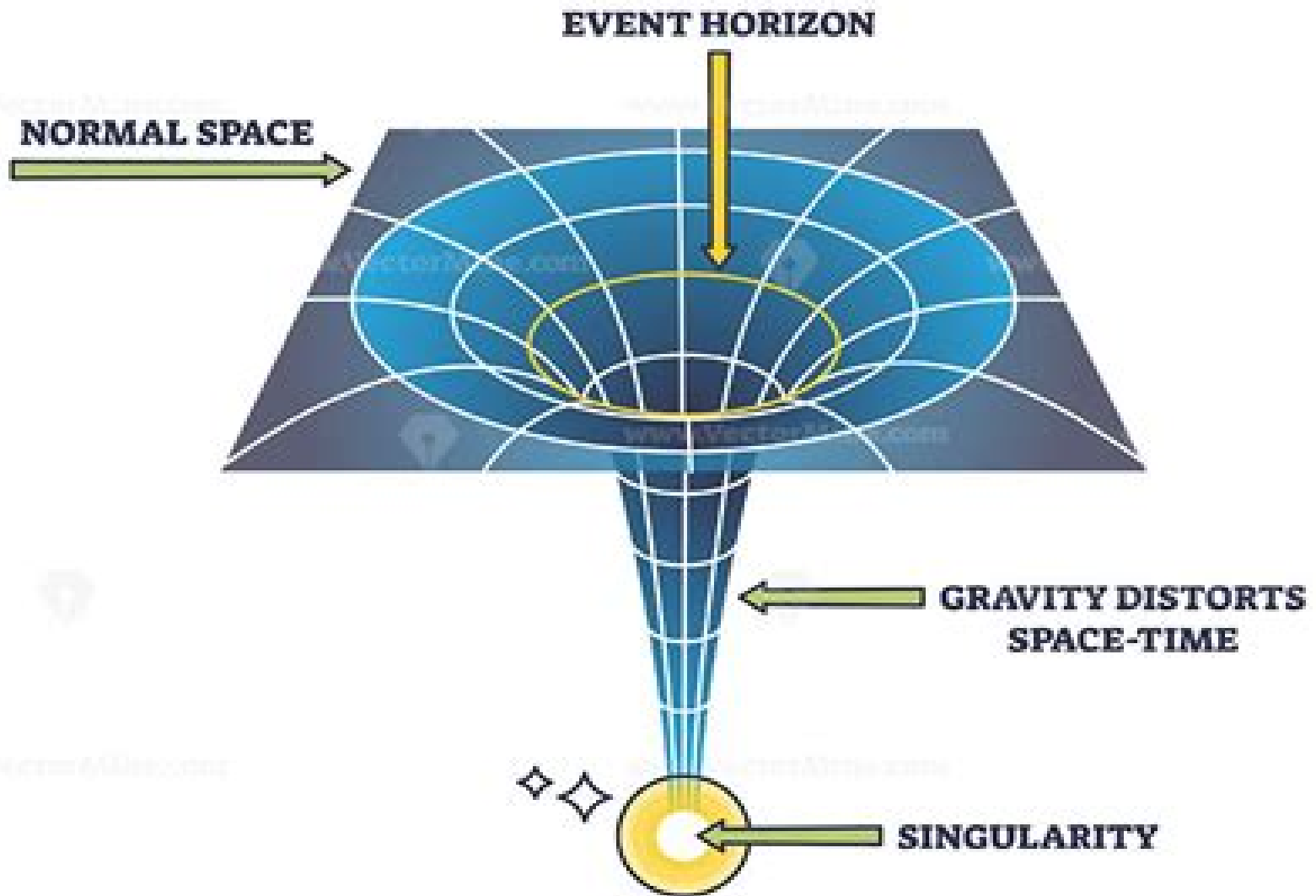


SPACETIME



Physics As Spacetime Geometry

Sean M. Carroll



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Spacetime and Geometry Sean M. Carroll, 2019-08-08 An accessible introductory textbook on general relativity covering the theory's foundations, mathematical formalism and major applications *Spacetime, Geometry and Gravitation* Pankaj Sharan, 2009-09-18 This introductory textbook on the general theory of relativity presents a solid foundation for those who want to learn about relativity. The subject is presented in a physically intuitive but mathematically rigorous style. The topic of relativity is covered in a broad and deep manner. Besides the aim is that after reading the book a student should not feel discouraged when she opens advanced texts on general relativity for further reading. The book consists of three parts: An introduction to the general theory of relativity, Geometrical mathematical background material, Topics that include the action principle, weak gravitational fields and gravitational waves, Schwarzschild and Kerr solution and the Friedman equation in cosmology. The book is suitable for advanced graduates and graduates but also for established researchers wishing to be educated about the field.

The Geometry of Spacetime Rainer Oloff, 2023-04-21 This book systematically develops the mathematical foundations of the theory of relativity and links them to physical relations. For this purpose, differential geometry on manifolds is introduced first, including differentiation and integration, and special relativity is presented as tensor calculus on tangential spaces. Using Einstein's field equations relating curvature to matter, the relativistic effects in the solar system, including black holes, are discussed in detail. The text is aimed at students of physics and mathematics and assumes only basic knowledge of classical differential and integral calculus and linear algebra.

Spacetime Marcus Kriele, 1999-10-19 This textbook is for mathematicians and mathematical physicists and is mainly concerned with the physical justification of both the mathematical framework and the foundations of the theory of general relativity. Previous knowledge of the relevant physics is not assumed. This book is also suitable as an introduction to pseudo-Riemannian geometry with emphasis on geometrical concepts. A significant part of the text is devoted to the discussion of causality and singularity theorems. The insights obtained are applied to black hole astrophysics, thereby making the connection to current active research in mathematical physics and cosmology.

Spacetime and Geometry Lawrence C. Shepley, Richard Alfred Matzner, 1982 Why is the universe so symmetrical? Dennis Sciama Null congruences and Plebanski-Schild spaces Ivor Robinson Linearization stability Dieter Brill Nonlinear model field theories based on harmonic mappings Charles W. Misner Gravitational fields in general relativity Roy F. Kerr On the potential barriers surrounding the Schwarzschild black hole S. Chandrasekhar The initial value problem and beyond James W. York Jr and Tsvi Piran

The Geometry of Spacetime James J. Callahan, 2000 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.

Asymptotic Behavior of Mass and Spacetime Geometry Francis J. Flaherty, 1984

Flat and Curved Space-times George Francis Rayner Ellis, Ruth M.

Williams,2000 The present book explains special relativity and the basics of general relativity from a geometric viewpoint Space time geometry is emphasised throughout and provides the basis of understanding of the special relativity effects of time dilation length contraction and the relativity of simultaneity Bondi s K calculus is introduced as a simple means of calculating the magnitudes of these effects and leads to a derivation of the Lorentz transformation as a way of unifying these results The invariant interval of flat space time is generalised to that of curved space times and leads to an understanding of the basic properties of simple cosmological models and of the collapse of a star to form a black hole The appendices enable the advanced student to master the application of four tensors to the relativistic study of energy and momentum and of electromagnetism In addition this new edition contains up to date information on black holes gravitational collapse and cosmology

Space, Time, and Spacetime Lawrence Sklar,2023-07-28 In this book Lawrence Sklar demonstrates the interdependence of science and philosophy by examining a number of crucial problems on the nature of space and time problems that require for their resolution the resources of philosophy and of physics The overall issues explored are our knowledge of the geometry of the world the existence of spacetime as an entity over and above the material objects of the world the relation between temporal order and causal order and the problem of the direction of time Without neglecting the most subtle philosophical points or the most advanced contributions of contemporary physics the author has taken pains to make his explorations intelligible to the reader with no advanced training in physics mathematics or philosophy The arguments are set forth step by step beginning from first principles and the philosophical discussions are supplemented in detail by nontechnical expositions of crucial features of physical theories In this book Lawrence Sklar demonstrates the interdependence of science and philosophy by examining a number of crucial problems on the nature of space and time problems that require for their resolution the resources of philosophy and of physics DIV **Beyond Einstein** David E. Rowe,Tilman Sauer,Scott A. Walter,2018-06-18 Beyond Einstein Perspectives on Geometry Gravitation and Cosmology explores the rich interplay between mathematical and physical ideas by studying the interactions of major actors and the roles of important research communities over the course of the last century **Spacetime and Geometry** Sean Carroll,2013-08 Spacetime and Geometry An Introduction to General Relativity provides a lucid and thoroughly modern introduction to general relativity for advanced undergraduates and graduate students It introduces modern techniques and an accessible and lively writing style to what can often be a formal and intimidating subject Readers are led from physics of flat spacetime special relativity through the intricacies of differential geometry and Einstein s equations and on to exciting applications such as black holes gravitational radiation and cosmology Subtle points are illuminated throughout the text by careful and entertaining exposition A straightforward and lucid approach balancing mathematical rigor and physical insight are hallmarks of this important text Quantum Mechanics in the Geometry of Space-Time Roger Boudet,2011-06-13 This book continues the fundamental work of Arnold Sommerfeld and David Hestenes formulating theoretical physics in terms of

Minkowski space time geometry We see how the standard matrix version of the Dirac equation can be reformulated in terms of a real space time algebra thus revealing a geometric meaning for the number i in quantum mechanics Next it is examined in some detail how electroweak theory can be integrated into the Dirac theory and this way interpreted in terms of space time geometry Finally some implications for quantum electrodynamics are considered The presentation of real quantum electromagnetism is expressed in an addendum The book covers both the use of the complex and the real languages and allows the reader acquainted with the first language to make a step by step translation to the second one **A**

Mathematical Introduction To General Relativity Amol Sasane, 2021-08-10 The book aims to give a mathematical presentation of the theory of general relativity that is spacetime geometry based gravitation theory to advanced undergraduate mathematics students Mathematicians will find spacetime physics presented in the definition theorem proof format familiar to them The given precise mathematical definitions of physical notions help avoiding pitfalls especially in the context of spacetime physics describing phenomena that are counter intuitive to everyday experiences In the first part the differential geometry of smooth manifolds which is needed to present the spacetime based gravitation theory is developed from scratch Here many of the illustrating examples are the Lorentzian manifolds which later serve as spacetime models This has the twofold purpose of making the physics forthcoming in the second part relatable and the mathematics learnt in the first part less dry The book uses the modern coordinate free language of semi Riemannian geometry Nevertheless to familiarise the reader with the useful tool of coordinates for computations and to bridge the gap with the physics literature the link to coordinates is made through exercises and via frequent remarks on how the two languages are related In the second part the focus is on physics covering essential material of the 20th century spacetime based view of gravity energy momentum tensor field of matter field equation spacetime examples Newtonian approximation geodesics tests of the theory black holes and cosmological models of the universe Prior knowledge of differential geometry or physics is not assumed The book is intended for self study and the solutions to the over 200 exercises are included **Asymptotic Behavior of Mass**

and Spacetime Geometry F. J. Flaherty, 2014-03-12 *Gravitational Physics* National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on Gravitational Physics, 1999-12-03 Gravitational Physics assesses the achievements of the field over the past decade in both theory and experiment identifies the most promising opportunities for research in the next decade and describes the resources necessary to realize those opportunities A major theme running through the opportunities is the exploration of strong gravitational fields such as those associated with black holes The book part of the ongoing decadal survey Physics in a New Era examines topics such as gravitational waves and their detection classical and quantum theory of strong gravitational fields precision measurements and astronomical observations relevant to the predictions of Einstein's theory of general relativity **Space, Time, Matter** Herman Weyl, 2007-06-01 **Springer Handbook of Spacetime** Abhay Ashtekar, Vesselin Petkov, 2014-09-01 The Springer

Handbook of Spacetime is dedicated to the ground breaking paradigm shifts embodied in the two relativity theories and describes in detail the profound reshaping of physical sciences they ushered in. It includes in a single volume chapters on foundations on the underlying mathematics on physical and astrophysical implications experimental evidence and cosmological predictions as well as chapters on efforts to unify general relativity and quantum physics. The Handbook can be used as a desk reference by researchers in a wide variety of fields not only by specialists in relativity but also by researchers in related areas that either grew out of or are deeply influenced by the two relativity theories cosmology astronomy and astrophysics high energy physics quantum field theory mathematics and philosophy of science. It should also serve as a valuable resource for graduate students and young researchers entering these areas and for instructors who teach courses on these subjects. The Handbook is divided into six parts: Part A Introduction to Spacetime Structure; Part B Foundational Issues; Part C Spacetime Structure and Mathematics; Part D Confronting Relativity theories with observations; Part E General relativity and the universe; Part F Spacetime beyond Einstein.

Towards a Theory of Spacetime Theories Dennis Lehmkuhl, Gregor Schiemann, Erhard Scholz, 2017-01-05. This contributed volume is the result of a July 2010 workshop at the University of Wuppertal Interdisciplinary Centre for Science and Technology Studies which brought together world wide experts from physics philosophy and history in order to address a set of questions first posed in the 1950s: How do we compare spacetime theories? How do we judge objectively which is the best theory? Is there even a unique answer to this question? The goal of the workshop and of this book is to contribute to the development of a meta theory of spacetime theories. Such a meta theory would reveal insights about specific spacetime theories by distilling their essential similarities and differences, deliver a framework for a class of theories that could be helpful as a blueprint to build other meta theories and provide a higher level viewpoint for judging which theory most accurately describes nature. But rather than drawing a map in broad strokes the focus is on particularly rich regions in the space of spacetime theories. This work will be of interest to physicists as well as philosophers and historians of science working with or interested in General Relativity and or Space Time and Gravitation more generally.

The Geometry of Minkowski Spacetime Gregory L. Naber, 2011-10-24. This book offers a presentation of the special theory of relativity that is mathematically rigorous and yet spells out in considerable detail the physical significance of the mathematics. It treats in addition to the usual menu of topics one is accustomed to finding in introductions to special relativity a wide variety of results of more contemporary origin. These include Zeeman's characterization of the causal automorphisms of Minkowski spacetime, the Penrose theorem on the apparent shape of a relativistically moving sphere, a detailed introduction to the theory of spinors, a Petrov type classification of electromagnetic fields in both tensor and spinor form, a topology for Minkowski spacetime whose homeomorphism group is essentially the Lorentz group, and a careful discussion of Dirac's famous Scissors Problem and its relation to the notion of a two valued representation of the Lorentz group. This second edition includes a new chapter on the de Sitter universe which is intended to

serve two purposes The first is to provide a gentle prologue to the steps one must take to move beyond special relativity and adapt to the presence of gravitational fields that cannot be considered negligible The second is to understand some of the basic features of a model of the empty universe that differs markedly from Minkowski spacetime but may be recommended by recent astronomical observations suggesting that the expansion of our own universe is accelerating rather than slowing down The treatment presumes only a knowledge of linear algebra in the first three chapters a bit of real analysis in the fourth and in two appendices some elementary point set topology The first edition of the book received the 1993 CHOICE award for Outstanding Academic Title Reviews of first edition a valuable contribution to the pedagogical literature which will be enjoyed by all who delight in precise mathematics and physics American Mathematical Society 1993 Where many physics texts explain physical phenomena by means of mathematical models here a rigorous and detailed mathematical development is accompanied by precise physical interpretations CHOICE 1993 his talent in choosing the most significant results and ordering them within the book can t be denied The reading of the book is really a pleasure Dutch Mathematical Society 1993

Reflections on Spacetime Ulrich Majer, Heinz-Jürgen Schmidt, 2013-03-14 REFLECTIONS ON SPACETIME FOUNDATIONS PHILOSOPHY AND HISTORY During the academic year 1992 93 an interdisciplinary research group constituted itself at the Zentrum für interdisziplinäre Forschung ZIF in Bielefeld Germany under the title Semantical Aspects of Spacetime Theories in which philosophers and physicists worked on topics in the interpretation and history of relativity theory The present issue consists of contributions resulting from material presented and discussed in the group during the course of that year The scope of the papers ranges from rather specialised issues arising from general relativity such as the problem of referential indeterminacy to foundational questions regarding spacetime in the work of Carnap Weyl and Hilbert It is well known that the General Theory of Relativity GTR admits spacetime models which are exotic in the sense that observers could travel into their own past This poses a number of problems for the physical interpretation of GTR which are also relevant in the philosophy of spacetime It is not enough to exclude these exotic models simply by stating that we live in a non exotic universe because it might be possible to operate time machines by actively changing the topology of the future part of spacetime In his contribution Earman first reviews the attempts of physicists to prove chronology protection theorems CPTs which exclude the operation of time machines under reasonable assumptions

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