

SPACETIME



Spacetime And Geometry

Sean Carroll, Sean M. Carroll



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Spacetime and Geometry Sean Carroll, Sean M. Carroll, 2004 **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

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 **Spacetime, Geometry and Gravitation** Pankaj Sharan, 2009-11-18 This is an introductory book on the general theory of relativity based partly on lectures given to students of M Sc Physics at my university The book is divided into three parts The first part is a preliminary course on general relativity with minimum preparation The second part builds the mathematical background and the third part deals with topics where mathematics developed in the second part is needed The first chapter gives a general background and introduction This is followed by an introduction to curvature through Gauss Theorema Egregium This theorem expresses the curvature of a two dimensional surface in terms of intrinsic quantities related to the infinitesimal distance function on the surface The student is introduced to the metric tensor Christoffel symbols and Riemann curvature tensor by elementary methods in the familiar and visualizable case of two dimensions This early introduction to geometric quantities equips a student to learn simpler topics in general relativity like the Newtonian limit red shift the Schwarzschild solution precession of the perihelion and bending of light in a gravitational field Part II chapters 5 to 10 is an introduction to Riemannian geometry as required by general relativity This is done from the beginning starting with vectors and tensors I believe that students of physics grasp physical concepts better if they are not shaky about the mathematics involved *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 *Spacetime, Geometry, Cosmology* William L. Burke, 2020-12-16 Novel interpretation of the relationship between space time gravitation and their cosmological implications based on author's discovery of a value in gravitation overlooked by both Newton and Einstein 1982 edition 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 *The Geometry of Minkowski Spacetime* Gregory L.

Naber, 2012-02-02 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 **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

Space, Time, and Spacetime Lawrence Sklar, 1977-03-15 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

Asymptotic Behavior of Mass and Spacetime Geometry Francis J. Flaherty, 1984 *Orthogonality and Spacetime Geometry* Robert Goldblatt, 2012-12-06 This book examines the geometrical notion of orthogonality and shows how to use it as the primitive concept on which to base a metric structure in affine geometry The subject has a long history and an extensive literature but whatever novelty there may be in the study presented here comes from its focus on geometries having lines that are self orthogonal or even singular orthogonal to all lines The most significant examples concern four dimensional special relativistic spacetime Minkowskian geometry and its various sub geometries and these will be prominent throughout But the project is intended as an exercise in the foundations of geometry that does not presume a knowledge of physics and so in order to provide the appropriate intuitive background an initial chapter has been included that gives a description of the different types of line timelike spacelike lightlike that occur in spacetime and the physical meaning of the orthogonality relations that hold between them The coordinatisation of affine spaces makes use of constructions from projective geometry including standard results about the matrix representability of certain projective transformations involutions polarities I have tried to make the work sufficiently self contained that it may be used as the basis for a course at the advanced undergraduate level assuming only an elementary knowledge of linear and abstract algebra

Spacetime Geometry and General Relativity Neil Lambert, 2014-10-02 *Spacetime Geometry and General Relativity* By Neil Lambert

Space, Time and Gravitation Sir Arthur Stanley Eddington, 1920 *Interstellar Travel* Les Johnson, Kenneth

Roy,2024-05-23 *Interstellar Travel Propulsion Life Support Communications and the Long Journey* addresses the technical challenges that must be overcome to make such journeys possible. Leading experts in the fields of space propulsion, power, communication, navigation, crew selection, safety, and health provide detailed information about state-of-the-art technologies and approaches for each challenge, along with possible methods based on real science and engineering. This book offers in depth up-to-date and realistic technical and scientific considerations in the pursuit of interstellar travel and will be an essential reference for scientists, engineers, researchers, and academics working on or interested in space development and space technologies. With a renewed interest in space exploration and development evidenced by the rise of the commercial space sector and various governments now planning to send humans back to the moon and to Mars, there is also growing interest in taking the next steps beyond the solar system and to the ultimate destination: planets circling other stars. With the rapid growth in the number of known exoplanets, people are now asking how we might make journeys to visit them. Discusses the technical challenges that must be overcome to mount interstellar missions. Features various aspects of interstellar travel by the world's recognized leading experts in the field. Provides referenceable data and analysis for both new and experienced researchers in the interstellar and deep space exploration fields.

Special Relativity Sadri Hassani,2017-05-09 *Special Relativity: A Heuristic Approach* provides a qualitative exposition of relativity theory on the basis of the constancy of the speed of light. Using Einstein's signal velocity as the defining idea for the notion of simultaneity and the fact that the speed of light is independent of the motion of its source, chapters delve into a qualitative exposition of the relativity of time and length, discuss the time dilation formula using the standard light clock, explore the Minkowski four-dimensional space-time distance based on how the time dilation formula is derived, and define the components of the two-dimensional space-time velocity. Amongst other topics, it provides a heuristic derivation of the Minkowski distance formula, uses relativistic photography to see Lorentz transformation and vector algebra manipulation in action, includes worked examples to elucidate and complement the topic being discussed. Written in a very accessible style.

The Geometry and Topology of Spacetime, 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 avoid 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

The Routledge Companion to Philosophy of Science Martin Curd, Stathis Psillos, 2013-07-24 The Routledge Companion to Philosophy of Science is an indispensable reference source and guide to the major themes debates problems and topics in philosophy of science It contains sixty two specially commissioned entries by a leading team of international contributors Organized into four parts it covers historical and philosophical context debates concepts the individual sciences The Routledge Companion to Philosophy of Science addresses all of the essential topics that students of philosophy of science need to know from empiricism explanation and experiment to causation observation prediction and more and contains many helpful features including chapters on individual sciences such as biology chemistry physics and psychology further reading and cross referencing at the end of each chapter Expanded and revised throughout this second edition includes new chapters on Conventionalism Social Epistemology Computer Simulation Thought Experiments Pseudoscience Species and Taxonomy and Cosmology

Cosmology Research - Addressing Current Problems with Astrophysics Michael Smith, Ahmet M. Öztaş, 2025-12-17 This book delivers chapters that are required reading for serious cosmologists The most important chapters strongly suggest that the typical analytical routine used by astronomers over the past century to evaluate the distance velocity correlation is fatally flawed and unscientific Type Ia Supernovae SNe Ia data when properly analyzed do not support the standard model better than other simple models This also means support for dark matter and dark energy is nonexistent Another chapter explains that information from distant galaxies is not evidence for dark matter and why Distance Modulus DM cannot be detected on Earth Other chapters explore the fundamental relationships of cosmology suggesting new and potentially useful models Several chapters present excellent work in predicting observables in subatomic physics which can be verified through high energy experiments

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