



Spacetime Without Reference Frames

Spacetime Without Reference Frames

Patrick Suppes



Spacetime Without Reference Frames:

Spacetime Without Reference Frames Tamas Matolcsi, 2020-02-12 In this book nonrelativistic spacetime and special relativistic spacetime are modelled by a four dimensional affine space endowed with further structures among which the fundamental ones distinguishing between them are absolute time and absolute light propagation respectively In both cases the same mathematically well defined notions are introduced observer and its space synchronization and its time reference frame splitting of spacetime by a reference frame into synchronization time and observer space splitting of classical fields into timelike and spacelike components Coordinate systems which form a starting point of the usual treatments and are intuitive notions there get mathematically exact and clear definition here Transformation rules regarded as postulates there are assertions here The book contains lots of examples with detailed calculations which help the reader to see how these models work and it calls attention to some significant errors arising from the traditional way of thinking in terms of coordinates The symmetry groups of spacetime the Noether group and the Poincar group respectively are also treated in these models The mathematics involved is fairly simple and is summarized in the second part of the book Spacetime Without Reference Frames Tamás Matolcsi, 1993 What Spacetime Explains Graham Nerlich, 1994-08-04 Eleven of Graham Nerlich's essays are here brought together dealing with ontology and methodology in relativity variable curvature and general relativity and time and causation **Relativity and the Nature of Spacetime** Vesselin Petkov, 2006-02-18 Puts the emphasis on conceptual questions Why is there no such thing as absolute motion What is the physical meaning of relativity of simultaneity But the most important question that is addressed in this book is what is the nature of spacetime or equivalently what is the dimensionality of the world at the macroscopic level Develops answers to these questions via a thorough analysis of relativistic effects and explicitly asking whether the objects involved in those effects are three dimensional or four dimensional Discusses the implication of the result this analysis clearly shows that if the world and the physical objects were three dimensional none of the kinematic relativistic effects and the experimental evidence supporting them would be possible for physics philosophy and our entire world view are discussed Relativity without Spacetime Joseph K. Cosgrove, 2018-05-23 In 1908 three years after Einstein first published his special theory of relativity the mathematician Hermann Minkowski introduced his four dimensional spacetime interpretation of the theory Einstein initially dismissed Minkowski's theory remarking that since the mathematicians have invaded the theory of relativity I do not understand it myself anymore Yet Minkowski's theory soon found wide acceptance among physicists including eventually Einstein himself whose conversion to Minkowski's way of thinking was engendered by the realization that he could profitably employ it for the formulation of his new theory of gravity The validity of Minkowski's mathematical merging of space and time has rarely been questioned by either physicists or philosophers since Einstein incorporated it into his theory of gravity Physicists often employ Minkowski spacetime with little regard to the whether it provides a true account of the physical world as opposed to

a useful mathematical tool in the theory of relativity Philosophers sometimes treat the philosophy of space and time as if it were a mere appendix to Minkowski's theory In this critical study Joseph Cosgrove subjects the concept of spacetime to a comprehensive examination and concludes that Einstein's initial assessment of Minkowski was essentially correct The Origin of Natural Structure He And XL Yang Jin He and XL Yang, Dr. Jin He, 2009 A non-mathematical book based on the authors' academic papers which pioneered the study on the structures of galaxies, the solar system and the universe and can be understood by any middle school student The authors' findings are simple everything originates from the proportion order and its harmonic deviation For a system of two bodies like the Earth-Moon or the Sun-Earth the proportion order reduces to Newton's gravity Can life exist without gravity For example International Space Station and its on-board astronauts fall freely around the Earth and suffer no gravity Can astronauts stay for a long time in the Station The question is resolved on Yahoo Answers The longest stay is 430 days in space As soon as a person leaves the Earth's gravitational field several things start to occur in the body Circulatory problems within 2 to 3 days there is a 22% blood volume decrease or loss Muscle atrophy occurs in space at 5% per week Bone atrophy occurs in space at 1% per month Remember our bodies were developed within the Earth's gravity field our muscles are needed to counter gravity In space we no longer need our muscles so the brain starts to optimize the body by getting rid of what it doesn't need *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 **Lagrangian Interaction** Noel Doughty, 2018-03-08 This book is an introduction to Lagrangian mechanics starting with Newtonian physics and proceeding to topics such as relativistic Lagrangian fields and Lagrangians in General Relativity, electrodynamics, Gauge theory and relativistic gravitation The mathematical notation used is introduced and explained as the book progresses so it can be understood by students at the undergraduate level in physics or applied mathematics yet it is rigorous enough to serve as an introduction to the mathematics and concepts required for courses in relativistic quantum field theory and general relativity **Cartesian Spacetime** E. Slowik, 2013-03-14 Although Descartes

natural philosophy marked an advance in the development of modern science many critics over the years such as Newton have rejected his particular relational theory of space and motion Nevertheless it is also true that most historians and philosophers have not sufficiently investigated the viability of the Cartesian theory This book explores consequently the success of the arguments against Descartes theory of space and motion by determining if it is possible to formulate a version that can eliminate its alleged problems In essence this book comprises the first sustained attempt to construct a consistent Cartesian spacetime theory that is a theory of space and time that consistently incorporates Descartes various physical and metaphysical concepts Intended for students in the history of philosophy and science this study reveals the sophisticated insights and often quite successful elements in Descartes unjustly neglected relational theory of space and motion *There is not any black hole* Carlo Maria Pace,2017-01-03 In this book the author by starting from the Einstein s field equation of the General Theory of Relativity corrects the Schwarzschild solution and shows that in the correct Schwarzschild solution there is not any event horizon and therefore there is not any black hole Moreover the author extends all this to its direct consequences in particular correcting the Kerr solution the Reissner Nordstr m solution and the Kerr Newman solution Then the author extends these four correct solutions of Schwarzschild of Kerr of Reissner Nordstr m and of Kerr Newman also to the case in which the cosmological constant is greater than zero On the other hand the author by starting from the general form of the Einstein s field equation of the General Theory of Relativity demonstrates also in general the non existence of any event horizon and therefore the non existence of any black hole in the field of application of the General Theory of Relativity Finally the author also explores the consequences of all this on the entropy of the Universe on the Hawking emission process on the Big Bang Theory and on the astronomical observations *JUDENWELT* Frank Luger,2019-07-23 Judenwelt German lit Jew world is intended to complete Herzl s Judenstaat by filling the political framework with moral perfectionism The Jewish people have earned the right to prove to the world that they have not lived lies in the guise of illusions delusions but they are the Chosen people for serving God and teaching righteousness in benevolent ways The newly introduced term Mirism Russian both world and peace is intended to become the ideology of Cosmic Man whose moral maturation would be ensured by relevant education and Jews will finally fulfill their original mission of becoming Light unto the Nations a holy nation of Priests and teachers devoted to the pursuit of moral excellence without extraneous rituals or traditions Jewishness should be earned not inherited and proper education should finally result in world peace and fraternity with which then Man could advance into the Cosmic Era and a prosperous future 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 Geometry Patrick Suppes, 2012-12-06 The articles in this volume have been stimulated in two different ways More than two years ago the editor of *Synthese* Jaakko Hintikka announced a special issue devoted to space and time and articles were solicited Part of the reason for that announcement was also the second source of papers Several years ago I gave a seminar on special relativity at Stanford and the papers by Domotor Harrison Hudgin Latzer and myself partially arose out of discussion in that seminar All of the papers except those of Grünbaum Fine the second paper of Friedman and the paper of Adams appeared in a special double issue of *Synthese* 24 1972 Nos 1 2 I am pleased to have been able to add the four additional papers mentioned in making the special issue a volume in the *Synthese* Library Of these four additional articles only the one by Fine has previously appeared in print *Synthese* 22 1971 448 481 its relevance to the present volume is apparent In preparing the papers for publication and in carrying out the various editorial chores of such a task I am very much indebted to Mrs Lillian O Toole for her extensive assistance

INTRODUCTION The philosophy of space and time has been of permanent importance in philosophy and most of the major historical figures in philosophy such as Aristotle Descartes and Kant have had a good deal to say about the nature of space and time

Encyclopedia of Time H. James Birx, 2009-01-07 With a strong interdisciplinary approach to a subject that does not lend itself easily to the reference format this work may not seem to support directly academic programs beyond general research but it is a more thorough and up to date treatment than Taylor and Francis's 1994 *Encyclopedia of Time* Highly recommended Library Journal **STARRED** Review Surveying the major facts concepts theories and speculations that infuse our present comprehension of time the *Encyclopedia of Time* Science Philosophy Theology Culture explores the contributions of scientists philosophers theologians and creative artists from ancient times to the present By drawing together into one collection ideas from scholars around the globe and in a wide range of disciplines this *Encyclopedia* will provide readers with a greater understanding of and appreciation for the elusive phenomenon experienced as time Features Surveys historical thought about time including those ideas that emerged in ancient Greece early Christianity the Italian Renaissance the Age of Enlightenment and other periods Covers the original and lasting insights of evolutionary biologist Charles Darwin physicist Albert Einstein philosopher Alfred North Whitehead and theologian Pierre Teilhard de Chardin Discusses the significance of time in the writings of Isaac Asimov

Samuel Taylor Coleridge Fyodor M Dostoevsky Francesco Petrarch H G Wells and numerous other authors Contains the contributions of naturalists and religionists including astronomers cosmologists physicists chemists geologists paleontologists anthropologists psychologists philosophers and theologians Includes artists portrayals of the fluidity of time including painter Salvador Dali s The Persistence of Memory and The Discovery of America by Christopher Columbus and writers Gustave Flaubert s The Temptation of Saint Anthony and Henryk Sienkiewicz s Quo Vadis Provides a truly interdisciplinary approach with discussions of Aztec Buddhist Christian Egyptian Ethiopian Hindu Islamic Navajo and many other cultures conceptions of time Key Themes Biography Biology Evolution Culture History Geology Paleontology Philosophy Physics Chemistry Psychology Literature Religion Theology Theories Concepts [Quantum Gravity](#) Carlo Rovelli,2004-11-15 Publisher Description **Cosmology and Gravitation** Mario Novello,Santiago E. Bergliaffa,2003-06-11 This volume contains a series of topical lectures in general relativity cosmology astrophysics and field theory with contributions from theorists and experimentalists **Continuum Mechanics and Thermodynamics** Ellad B. Tadmor,Ronald E. Miller,Ryan S. Elliott,2012 Treats subjects directly related to nonlinear materials modeling for graduate students and researchers in physics materials science chemistry and engineering [Continuum Mechanics](#) Mr. Rohit Manglik,2024-07-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Space-Time, Relativity, and Cosmology** Jose Wudka,2006-07-20 Space Time Relativity and Cosmology provides a historical introduction to modern relativistic cosmology and traces its historical roots and evolution from antiquity to Einstein The topics are presented in a non mathematical manner with the emphasis on the ideas that underlie each theory rather than their detailed quantitative consequences A significant part of the book focuses on the Special and General theories of relativity The tests and experimental evidence supporting the theories are explained together with their predictions and their confirmation Other topics include a discussion of modern relativistic cosmology the consequences of Hubble s observations leading to the Big Bang hypothesis and an overview of the most exciting research topics in relativistic cosmology This textbook is intended for introductory undergraduate courses on the foundations of modern physics It is also accessible to advanced high school students as well as non science majors who are concerned with science issues **Robot Colonies** Ronald C. Arkin,George A. Bekey,2013-03-14 Robots in groups or colonies can exhibit an enormous variety and richness of behaviors which cannot be observed with singly autonomous systems Of course this is analogous to the amazing variety of group animal behaviors which can be observed in nature In recent years more and more investigators have started to study these behaviors The studies range from classifications and taxonomies of behaviors to development of architectures which cause such group activities as flocking or swarming and from emphasis on the role of intelligent agents in such groups to studies of learning and obstacle avoidance

There used to be a time when many robotics researchers would question those who were interested in working with teams of robots. Why are you worried about robotic teams when it's hard enough to just get one to work? This issue responds to that question. Robot Colonies provides a new approach to task problem solving that is similar in many ways to distributed computing. Multiagent robotic teams offer the possibility of spatially distributed parallel and concurrent perception and action. A paradigm shift results when using multiple robots providing a different perspective on how to carry out complex tasks. New issues such as interagent communications, spatial task distribution, heterogeneous or homogeneous societies, and interference management are now central to achieving coordinated and productive activity within a colony. Fortunately, mobile robot hardware has evolved sufficiently in terms of both cost and robustness to enable these issues to be studied on actual robots and not merely in simulation. Robot Colonies presents a sampling of the research in this field. While capturing a reasonable representation of the most important work within this area, its objective is not to be a comprehensive survey but rather to stimulate new research by exposing readers to the principles of robot group behaviors, architectures, and theories. Robot Colonies is an edited volume of peer-reviewed original research comprising eight invited contributions by leading researchers. This research work has also been published as a special issue of Autonomous Robots, Volume 4, Number 1.

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