



**The Conceptual
Foundations of
Contemporary
Relativity Theory**

Foreword by
John Scott (Oxford, England)

John Cowpertwait (Gravesend)

The Conceptual Foundations Of Contemporary Relativity Theory

H. Sankey



The Conceptual Foundations Of Contemporary Relativity Theory:

The Conceptual Foundations of Contemporary Relativity Theory John Cowperthwaite Graves, 1971 The central conceptual idea of the contemporary theory of general relativity or geometrodynamics is the identification of matter with the structure of space time No entities foreign to space time like masses charges or independent fields are needed and physics thus becomes identical with the geometry of space time This idea implies a philosophical description of the universe that is monistic and organic characterized by an all encompassing interdependence of events Moreover it is an idea with deep roots in the history of philosophy For these reasons the author of this important study strives to clarify these philosophical and historical issues before proceeding to the details of the physical theory of geometrodynamics Graves develops a general philosophical framework of scientific realism asserting that scientific theories have ontological import in determining the real structure of the world and in particular that models play a central role as ontological hypotheses He introduces two factors the empiricist error and the logical errors that he feels have contributed to past misinterpretations of the nature of reality that were based on general relativity theory The historic continuities that join the metaphysics of Plato and Descartes with the monistic organic nature of geometrodynamics are contrasted with the latter's radical break with the Newtonian or atomistic worldview which is predicated on a basic separation between matter and space The Newtonian independence and distinctness of objects is at the polar extreme from their Einsteinian interdependence and continuity In discussing the physical principles of relativity the author begins with a review of Einstein's original formulation classical general relativity and the significance of its basic assumptions and equations He then presents the remarkable recent developments in geometrodynamics which allow the program of identifying matter with space time to be carried further than even Einstein suspected possible The surprising discovery that electromagnetism can be incorporated into geometrodynamics without modifying Einstein's original equations appears to be formally correct but reliance on multiply connected topologies wormholes to represent charge raises various unresolved questions Graves concludes that the present language of physics like that of everyday life is based on concepts of independence and separation and that a wholly new language may be needed to describe the world in terms of geometrodynamics in which space time appears as the only substance with curvatures as its attributes and in which objects have no absolute individuality distinctness or location

The conceptual foundations of contemporary relativity theory John Cowperthwaite Graves, 1971 **The Conceptual Foundations of Contemporary Relativity Theory** John Cowperthwaite Graves, 1971 The central conceptual idea of the contemporary theory of general relativity or geometrodynamics is the identification of matter with the structure of space time No entities foreign to space time like masses charges or independent fields are needed and physics thus becomes identical with the geometry of space time This idea implies a philosophical description of the universe that is monistic and organic characterized by an all encompassing interdependence of events Moreover it is an idea with deep roots in the history of philosophy For these

reasons the author of this important study strives to clarify these philosophical and historical issues before proceeding to the details of the physical theory of geometrodynamics The Ashgate Companion to Contemporary Philosophy of Physics Dean Rickles, 2016-11-25 Introducing the reader to the very latest developments in the philosophical foundations of physics this book covers advanced material at a level suitable for beginner and intermediate students A detailed overview is provided of the central debates in the philosophy of quantum mechanics statistical mechanics quantum computation and quantum gravity Each chapter consists of a state of the art review written by a specialist in the field and introduces the reader to the relevant formal aspects along with the philosophical implications These and the various interpretive options are developed in a self contained clear and concise manner Special care is given to situating the reader within the contemporary debates by providing numerous references and readings This book thus enables both philosophers and physicists to engage with the most pressing problems in contemporary philosophy of physics in a fruitful way **Hans Reichenbach: Logical**

Empiricist M.H. Salmon, 2012-12-06 Logical empiricism not to be confused with logical positivism see pp 40 44 is a movement which has left an indelible mark on twentieth century philosophy Hans Reichenbach 1891 1953 was one of its found ers and one of its most productive advocates His sudden and untimely death in 1953 halted his work when he was at the height of his intellectual powers nevertheless he bequeathed to us a handsome philosophical inheritance At the present time twenty five years later we can survey our heritage and see to what extent we have been enriched The present collection of essays constitutes an effort to do just that to exhibit the scope and unity of Reichenbach s philosophy and its relevance to current philosophical issues There is no Nobel Prize in philosophy the closest analogue is a volume in The Library of Living Philosophers an honor which like the Nobel Prize cannot be awarded posthumously Among scientific philosophers Rudolf Carnap Albert Einstein Karl Popper and Bertrand Russell have been so honored Had Reichenbach lived longer he would have shared the honor with Carnap for at the time of his death a volume on Logical Empiricism treating the works of Carnap and Reichenbach was in its early stages of preparation In the volume which emerged Carnap wrote In 1953 when Reichenbach s creative activity was suddenly ended by his premature death our movement lost one of its most active leaders **The Deep**

Metaphysics of Space Edward Slowik, 2016-10-12 This volume explores the inadequacies of the two standard conceptions of space or spacetime substantivalism and relationism and in the process proposes a new historical interpretation of these physical theories This book also examines and develops alternative ontological conceptions of space and explores additional historical elements of seventeenth century theories and other metaphysical themes The author first discusses the two main opposing theories of the ontology of space One known as substantivalism proposes space to be an entity that can exist independently of material things The other relationism contends that space is a relation among material things Readers will learn about specific problems with this dichotomy First Newton and Leibniz are often upheld as the retrospective forerunners of substantivalism and relationism But their work often contradicts the central tenets of these views Second these theories

have proven problematic when transferred to a modern setting especially with regards to general relativity and the recent quantum gravity hypotheses The author details an alternative set of concepts that address these problems The author also develops a new classificational system that provides a more accurate taxonomy for the elements of all spatial ontologies This classification obtains successful analogies between Newton Leibniz and other natural philosophers with contemporary physical theories *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1973 [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 **The Cambridge History of Philosophy 1870-1945** Thomas Baldwin,2003-11-27 Table of contents [More Heat than Light](#) Philip Mirowski,1991-11-29 More Heat Than Light is a history of how physics has drawn some inspiration from economics and also how economics has sought to emulate physics especially with regard to the theory of value It traces the development of the energy concept in Western physics and its subsequent effect upon the invention and promulgation of neoclassical economics Any discussion of the standing of economics as a science must include the historical symbiosis between the two disciplines Starting with the philosopher Emile Meyerson s discussion of the relationship between notions of invariance and causality in the history of science the book surveys the history of conservation principles in the Western discussion of motion Recourse to the metaphors of the economy are frequent in physics and the concepts of value motion and body reinforced each other throughout the development of both disciplines especially with regard to practices of mathematical formalisation However in economics subsequent misuse of conservation principles led to serious blunders in the mathematical formalisation of economic theory The book attempts to provide the reader with sufficient background in the history of physics in order to appreciate its theses The discussion is technically detailed and complex and familiarity with calculus is required **The Children of Time** Rémy Lestienne,1995 A work of scientific substance and critical wisdom developed in the urbane idiom of a French scholar J T Fraser founder International Society for the Study of Time This is the book for those of us who couldn t wade completely through Hawking s A Brief History of Time and now have it collecting dust on our bookshelves Well written thought provoking and most important understandable Michael Epstein analytical spectroscopist chemist National Institute of Standards and Technology What is time Does it really pass These and other fascinating questions about the nature of time animate a continuing philosophical and scientific debate In this popular French book now available for the first time in English my Lestienne moves to make the bewildering concepts of time accessible and interesting He uses Galileo Newton Einstein and others to demonstrate how the concepts of causality and entropy became so pervasive that they eventually were substituted for time itself He also shows how recent advances in astronomy particle physics developmental life sciences and the neurosciences are helping to shape a new philosophical vision of time **Proceedings of the 1972 Biennial Meeting of the Philosophy of Science Association** K. Schaffner,Robert S. Cohen,2012-12-06 This book contains selected papers

from symposia and contributed sessions presented at the third biennial meeting of the Philosophy of Science Association held in Lansing Michigan on October 27 29 1972 We are grateful to Michigan State University and especially to Professor Peter Asquith and his students and colleagues for their friendly and efficient hospitality in organizing the circumstances of the sessions and of the intersessions the unscheduled free time which is so important to any scholarly gathering Several of the symposium papers have unhappily not been made available those of Alasdair MacIntyre and Sidney Morgenbesser in the session on the social sciences that of Ian Hacking in the session on randomness and that of Imre Lakatos in the session on discovery and rationality in science Department of History and KENNETH F SCHAFFNER Philosophy of Science University of Pittsburgh Center for the Philosophy and ROBERT S COHEN History of Science Boston University

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 PREFACE v PART I SYMPOSIUM SPACE TIME AND MATTER THE FOUNDATIONS OF GEOMETRODYNAMICS ADOLF GRUNBAUM Space Time and Matter The Foundations of Geometrodynamics Introductory Remarks 3 CHARLES W MISNER Some Topics for Philosophical Inquiry Concerning the Theories of Mathematical Geometrodynamics and of Physical Geometrodynamics 7 JOHN STACHEL The Rise and Fall of Geometrodynamics 31 PART II PHILOSOPHICAL PROBLEMS OF BIOLOGY AND PSYCHOLOGY STUART KAUFFMAN Elsasser Generalized Complementarity and Finite Classes A Critique of His Anti Reductionism 57 WILLIAM C

Einstein and Soviet Ideology Alexander Vucinich, 2001 This book traces the historical trajectory of one of the most momentous confrontations in the intellectual life of the Soviet Union the conflict between Einstein's theory of relativity and official Soviet ideology embodied in dialectical materialism It describes how Soviet attitudes toward Einstein's theory of relativity changed again and again during the eras of Soviet history pre Stalin Stalin post Stalin and perestroika

The Ecological Self Freya Mathews, 2021-05-16 Environmental disasters from wildfires and vanishing species to flooding and drought have increased dramatically in recent years and debates about the environment are rarely far from the headlines There is growing awareness that these disasters are connected indeed that in the fabric of nature everything is interconnected However until the publication of Freya Mathews The Ecological Self there had been remarkably few attempts to provide a conceptual foundation for such interconnectedness that brought together philosophy and science In this acclaimed book Mathews skilfully weaves together a thought provoking metaphysics of the environment She connects the ideas of the seventeenth century philosopher Spinoza with twentieth century systems theory and Einstein's physics to argue that the atomistic cosmology inherited from Newton gave credence to a picture of the universe as fragmented rather than as whole Furthermore it is such faulty thinking that presents human beings as similarly disconnected and individualistic with the dire consequence that they regard nature as of purely instrumental rather than intrinsic value She concludes by arguing for an ethics of ecological interdependence and for a basic egalitarianism among living species A compelling and fascinating account of how we must change our thinking about the environment The Ecological Self is a classic of ecological and environmental thinking This Routledge Classics edition includes a substantial new Introduction by

the author The Structure of Time W. H. Newton-Smith, 2018-10-10 Originally published in 1980 What is time How is its structure determined The enduring controversy about the nature and structure of time has traditionally been a diametrical argument between those who see time as a container into which events are placed and those for whom time cannot exist without events This controversy between the absolutist and the relativist theories of time is a central theme of this study The author's impressive arguments provide grounds for rejecting both these theories firstly by establishing that empty time is possible and secondly by showing through a discussion of the structure of time which involves considering whether time might be cyclical branching beginning or non beginning that the absolutist theory of time is untenable This book then advances two new theories and succeeds in shifting the traditional debate about time to a consideration of time as a theoretical structure and as a theoretical framework

Routledge Library Editions: Philosophy of Time Various Authors, 2021-03-05 Reissuing five works originally published between 1937 and 1991 this collection contains books addressing the subject of time from a mostly philosophic point of view but also of interest to those in the science and mathematics worlds These texts are brought back into print in this small set of works addressing how we think about time the history of the philosophy of time the measurement of time theories of relativity and discussions of the wider thinking about time and space among other aspects One volume is a thorough bibliography collating references on the subject of time across many disciplines

Conservative Reductionism Michael Esfeld, Christian Sachse, 2011-05-09 Conservative Reductionism sets out a new theory of the relationship between physics and the special sciences within the framework of functionalism It argues that it is wrong headed to conceive an opposition between functional and physical properties or functional and physical descriptions respectively and to build an anti reductionist argument on multiple realization By contrast a all properties that there are in the world including the physical ones are functional properties in the sense of being causal properties and b all true descriptions laws theories that the special sciences propose can in principle be reduced to physical descriptions laws theories by means of functional reduction despite multiple realization The book develops arguments for a from the metaphysics of properties and the philosophy of physics These arguments lead to a conservative ontological reductionism It then develops functional reduction into a fully fledged conservative theory reduction by means of introducing functional sub types that are coextensive with physical types illustrating that conservative reductionism by means of case studies from biology notably the relationship between classical and molecular genetics

Knots And Applications Thaddeus M Cowan, David Finkelstein, Louis H Kauffman, Eckehard W Mielke, H Keith Moffatt, Mario G Rasetti, L Rozansky, D W Walba, 1995-03-06 This volume is a collection of research papers devoted to the study of relationships between knot theory and the foundations of mathematics physics chemistry biology and psychology Included are reprints of the work of Lord Kelvin Sir William Thomson on the 19th century theory of vortex atoms reprints of modern papers on knotted flux in physics and in fluid dynamics and knotted wormholes in general relativity It also includes papers on Witten's approach to

knots via quantum field theory and applications of this approach to quantum gravity and the Ising model in three dimensions Other papers discuss the topology of RNA folding in relation to invariants of graphs and Vassiliev invariants the entanglement structures of polymers the synthesis of molecular Mobius strips and knotted molecules The book begins with an article on the applications of knot theory to the foundations of mathematics and ends with an article on topology and visual perception This volume will be of immense interest to all workers interested in new possibilities in the uses of knots and knot theory

Causation and Laws of Nature H. Sankey, 2013-03-14 Causation and Laws of Nature is a collection of articles which represents current research on the metaphysics of causation and laws of nature mostly by authors working in or active in the Australasian region The book provides an overview of current work on the theory of causation including counterfactual singularist nomological and causal process approaches It also covers work on the nature of laws of nature with special emphasis on the scientific essentialist theory that laws of nature are at base the fundamental dispositions or capacities of natural kinds of things Because the book represents a good cross section of authors currently working on these themes in the Australasian region it conveys something of the interest and excitement of an active philosophical debate between advocates of several different research programmes in the area

Holism in Philosophy of Mind and Philosophy of Physics M. Esfeld, 2013-03-09 The Scope of the Project The concept of holism is at the centre of far reaching changes in various areas of philosophy in the second half of the twentieth century Holism in epistemology and the philosophy of mind is widespread among analytic philosophers subsequent to the work of the later Wittgenstein and to Quine's Two Dogmas of Empiricism Roughly speaking the claim is that a for a person to have beliefs a social linguistic community is required and that b single beliefs have a meaning only within a whole system of beliefs Furthermore holism is discussed in science in particular in the interpretation of quantum physics In fact the term holism goes back to Smuts 1926 who introduces this term in a biological context I Holism in any of these areas has considerable consequences for our philosophical view of the world and ourselves Holism in quantum physics is said to refute atomism which has been predominant in modern philosophy of nature Holism in epistemology and the philosophy of mind is seen as an alternative to what is known as the Cartesian tradition which dominated modern thought down to logical empiricism

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