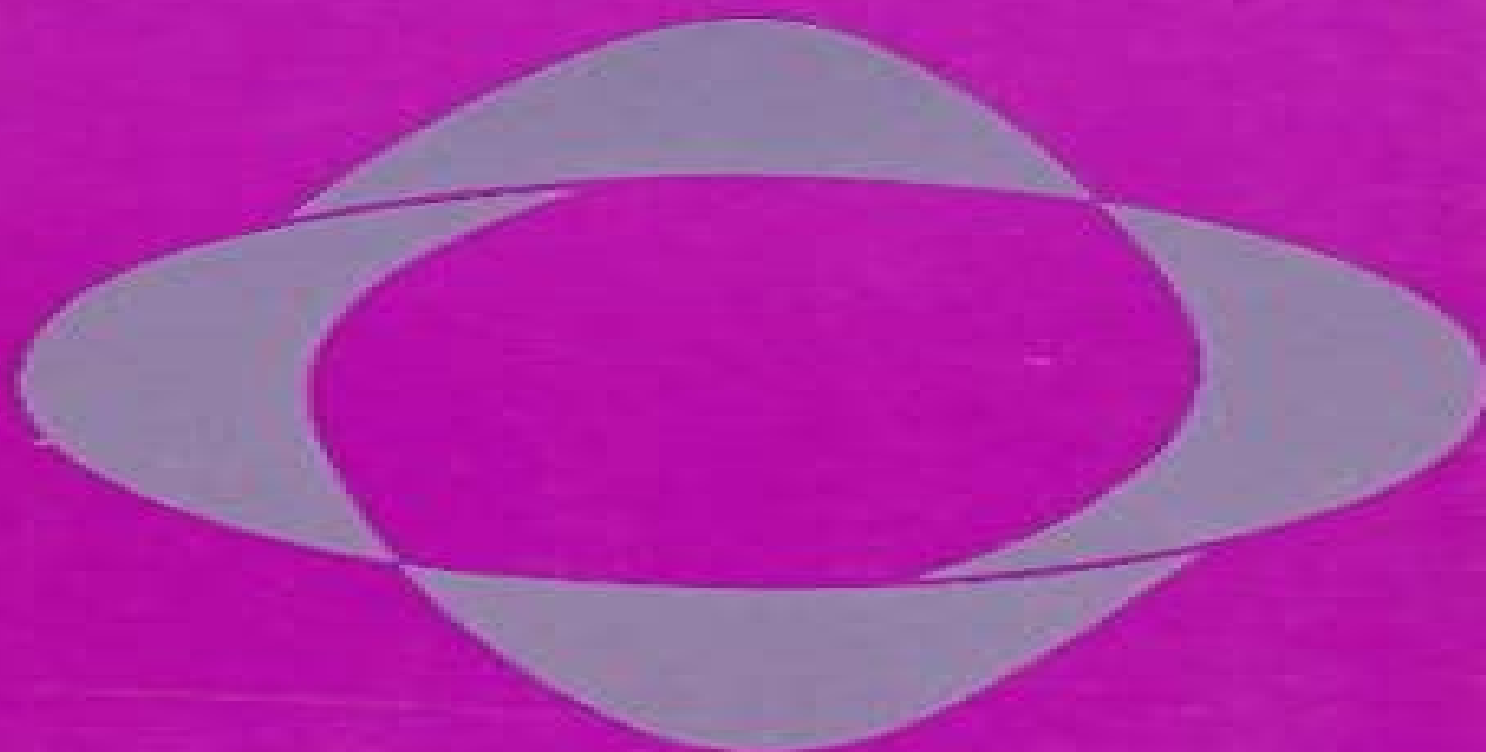




**The Conceptual
Foundations of
Contemporary
Relativity Theory**

Foreword by
John Scott Alexander Wheeler

John Cowpertwaitto Graves

The Conceptual Foundations Of Contemporary Relativity Theory

**Thirumalaisamy P.
Velavancorresponding**



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 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 Concepts of Space and Time* M. Capek,2014-11-14 **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 **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

TABLE OF CONTENTS 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 Elsassner 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 Renaissance and 17th Century Rationalism Prof G H R Parkinson (Author),G.H.R. Parkinson,2023-05-09 This fourth volume traces the history of Renaissance philosophy and seventeenth century rationalism covering Descartes and the birth of modern philosophy

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

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