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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 **Adaptive High-order** Methods in Computational Fluid Dynamics Z. J. Wang, 2011 This book consists of important contributions by world renowned experts on adaptive high order methods in computational fluid dynamics CFD It covers several widely used and still intensively researched methods including the discontinuous Galerkin residual distribution finite volume differential quadrature spectral volume spectral difference PNPM and correction procedure via reconstruction methods The main focus is applications in aerospace engineering but the book should also be useful in many other engineering disciplines including mechanical chemical and electrical engineering Since many of these methods are still evolving the book will be an excellent reference for researchers and graduate students to gain an understanding of the state of the art and remaining challenges in **A New Foundation of Physical Theories** Günther Ludwig, Gerald Thurler, 2007-12-11 Written high order CFD methods in the tradition of G Ludwig s groundbreaking works this book aims to clarify and formulate more precisely the fundamental ideas of physical theories By introducing a basic descriptive language of simple form in which it is possible to formulate recorded facts ambiguities of physical theories are avoided as much as possible In this approach the field of physics that should be described by a theory is determined by basic concepts only i e concepts that can be explained without a theory In this context the authors introduce a new concept of idealization and review the process of discovering new concepts They believe that when the theories are formulated within an axiomatic basis solutions can be found to many difficult problems such as the interpretation of physical theories the relations between theories as well as the introduction of physical concepts The book addresses both physicists and philosophers of science and should encourage the reader to contribute to the understanding of the lasting core of physical knowledge about the real structures of the world *Ouantum Theory and* Pictures of Reality Wolfram Schommers, 2012-12-06 Schommers introduces the foundations mostly from a historical point of view Eberhard gives an introductory account of the Einstein Podolsky Rosen paradox and Bell's celebrated inequalities D Espagnat discusses realism and separability and concludes that contemporary physics does not lead to a definite conception of the world Eberhard shows how a model consistent with Bell s theorem can be constructed by ad mitting faster than light

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