Scientific Explanation, Space, and Time

Scientific Explanation Space And Time

Wesley C. Salmon

Scientific Explanation Space And Time:

Scientific Explanation, Space, and Time; Edited by Herbert Feigl and Grover Maxwell for the Minnesota Center for the Philosophy of Science Herbert Feigl, Grover Maxwell, University of Minnesota. Center for Philosophy of Science, 1962

Scientific Explanation, Space, and Time Herbert Feigl, Grover Maxwell, 1962 Scientific Explanation, Space, and Time. Edited by H. Feigl and G. Maxwell, Etc Herbert Feigl, Grover Maxwell, 1962 Representing Space in the Scientific Revolution David Marshall Miller, 2014-08-07 The novel understanding of the physical world that characterized the Scientific Revolution depended on a fundamental shift in the way its protagonists understood and described space At the beginning of the seventeenth century spatial phenomena were described in relation to a presupposed central point by its end space had become a centerless void in which phenomena could only be described by reference to arbitrary orientations David Marshall Miller examines both the historical and philosophical aspects of this far reaching development including the rejection of the idea of heavenly spheres the advent of rectilinear inertia and the theoretical contributions of Copernicus Gilbert Kepler Galileo Descartes and Newton His rich study shows clearly how the centered Aristotelian cosmos became the oriented Newtonian universe and will be of great interest to students and scholars of the history and philosophy of science

Mind, Meaning and Scientific Explanation John-Michael Kuczynski, A comprehensive treatise on analytic philosophy with special attention paid to the theoretical basis of psychopathology Arguing about Science Alexander Bird, James Ladyman, 2013 Arguing About Science is an outstanding engaging introduction to the essential topics in philosophy of science edited by two leading experts in the field This exciting and innovative anthology contains a selection of classic and contemporary readings that examine a broad range of issues from classic problems such as scientific reasoning causation and scientific realism to more recent topics such as science and race forensic science and the scientific status of medicine The editors bring together some of the most influential contributions of famous philosophers in the field including John Stuart Mill and Karl Popper as well as more recent extracts from philosophers and scientists such as Ian Hacking Stephen Jay Gould Bas van Fraassen Nancy Cartwright and John Worrall The anthology is organised into nine clear sections science non science and pseudo science race gender and science scientific reasoning scientific explanation laws and causation science and medicine probability and forensic science risk uncertainty and science policy scientific realism and anti realism The articles chosen are clear interesting and free from unnecessary jargon. The editors provide lucid introductions to each section in which they provide an overview of the debate as well as suggestions forfurther reading Scientific Explanation and the Causal Structure of the World Wesley C. Salmon, 2020-11-10 The philosophical theory of scientific explanation proposed here involves a radically new treatment of causality that accords with the pervasively statistical character of contemporary science Wesley C Salmon describes three fundamental conceptions of scientific explanation the epistemic modal and ontic He argues that the prevailing view a version of the epistemic conception is untenable and that the modal conception is

scientifically out dated Significantly revising aspects of his earlier work he defends a causal mechanical theory that is a version of the ontic conception Professor Salmon s theory furnishes a robust argument for scientific realism akin to the argument that convinced twentieth century physical scientists of the existence of atoms and molecules To do justice to such notions as irreducibly statistical laws and statistical explanation he offers a novel account of physical randomness The transition from the reviewed view of scientific explanation that explanations are arguments to the causal mechanical model requires fundamental rethinking of basic explanatory concepts Scientific Explanation And Methodology Of Science Guichun Guo, Chuang Liu, 2014-03-27 This volume contains the contributed papers of invitees to SEMS 2012 who have also given talks at the conference The invitees are experts in philosophy of science and technology from Asia besides China Australia Europe Latin America North America as well as from within China The papers in this volume represent the latest work of each researcher in his or her expertise and as a result they give a good representation of the cutting edge researches in diverse areas in different parts of the world Statistical Mechanics And Scientific Explanation: Determinism, **Indeterminism And Laws Of Nature** Valia Allori, 2020-04-22 The book explores several open questions in the philosophy and the foundations of statistical mechanics Each chapter is written by a leading expert in philosophy of physics and or mathematical physics Here is a list of questions that are addressed in the book **Reading Putnam** Maria Baghramian, 2013 Hilary Putnam is one of the world's leading philosophers His highly original and often provocative ideas have set the agenda for a variety of debates in philosophy of science philosophy of mind and philosophy of language His now famous philosophical thought experiments such as the Twin earth and the brains in the vat have become part of the established canon in philosophy and cognitive science Reading Putnam is an outstanding overview and assessment of Hilary Putnam's work by a team of international contributors and includes replies by Putnam himself Divided into clear sections it contains chapters on key aspects of Putnam's large body of writing including Scientific realism and the changes that Putnam s thought has undergone on this topic analyticity and ontology including the important interconnections between the views of Putnam and Quine Putnam's arguments concerning externalist views of meaning and reference questions of conceptual relativity and his preoccupation with ethics through a denial of the fact value dichotomy Putnam's developing views on perception Offering an excellent survey of Putnam's work Reading Putnam is essential for those studying philosophy of mind philosophy of language and philosophy of science as well as for anyone interested in contemporary philosophy **Scientific Explanation** Philip Kitcher, Wesley C. Salmon, 1962-05-25 Scientific Explanation was first published in 1962 Minnesota Archive Editions uses digital technology to make long unavailable books once again accessible and are published unaltered from the original University of Minnesota Press editions Is a new consensus emerging in the philosophy of science The nine distinguished contributors to this volume apply that question to the realm of scientific explanation and although their conclusions vary they agree in one respect there definitely was an old consensus Co editor Wesley Salmon s opening essay

Four Decades of Scientific Explanation grounds the entire discussion His point of departure is the founding document of the old consensus a 1948 paper by Carl G Hempel and Paul Oppenheim Studies in the Logic of Explanation that set forth with remarkable clarity a mode of argument that came to be known as the deductive nomological model This approach holding that explanation dies not move beyond the sphere of empirical knowledge remained dominant during the hegemony of logical empiricism from 1950 to 1975 Salmon traces in detail the rise and breakup of the old consensus and examines the degree to which there is if not a new consensus at least a kind of reconciliation on this issue among contemporary philosophers of science and clear agreement that science can indeed tell us why The other contributors in the order of their presentations are Peter Railton Matti Sintonen Paul W Humphreys David Papineau Nancy Cartwright James Woodward Merrilee H Salmon Space, Time, and Spacetime Vesselin Petkov, 2010-09-02 Dedicated to the centennial anniversary of and Philip Kitcher Minkowski s discovery of spacetime this volume contains papers most presented at the Third International Conference on the Nature and Ontology of Spacetime that address some of the deepest questions in physics Reason and the Search for **Knowledge** D. Shapere, 2012-12-06 An impressive characteristic of Dudley Shapere's studies in the philosophy of the sciences has been his dogged reasonableness. He sorts things out with logical care and mastery of the materials and with an epistemological curiosity for the historical happenings which is both critical and respectful Science changes and the philosopher had better not link philosophical standards too tightly to either the latest orthodox or the provocative up start in scientific fashions and yet as critic the philosopher must not only master the sciences but also explicate their meanings not those of a cognitive never never land Neither dreamer nor pedant Professor Shapere has been able to practice the modern empiricist's exercises with the sober and stimulating results shown in this volume he sees that he can be faithful to philosoph ical analysis engage in the boldest rational reconstruction of theories and experimental measurements and faithful too empirically faithful we may say to both the direct super highways and the winding pathways of conceptual evolutions and metaphysical revolutions Not least Shapere listens To Einstein and Calileo of course but to the workings of the engineers and the scientific apprentices too and to the various philosophers now and of old who have also worked to make sense of what has been learned and how that has happened and where we might go wrong **Causality and Explanation** Wesley C. Salmon, 1998-01-22 For over two decades Wesley Salmon has helped to shape the course of debate in philosophy of science He is a major contributor to the philosophical discussion of problems associated with causality and the author of two influential books on scientific explanation This long awaited volume collects twenty six of Salmon s essays including seven that have never before been published and others difficult to find Part I comprises five introductory essays that presuppose no formal training in philosophy of science and form a background for subsequent essays Parts II and III contain Salmon s seminal work on scientific explanation and causality Part IV offers survey articles that feature advanced material but remain accessible to those outside philosophy of science Essays in Part V address specific issues in particular scientific disciplines

namely archaeology and anthropology astrophysics and cosmology and physics Clear compelling and essential this volume offers a superb introduction to philosophy of science for nonspecialists and belongs on the bookshelf of all who carry out work in this exciting field Wesley Salmon is renowned for his seminal contributions to the philosophy of science He has powerfully and permanently shaped discussion of such issues as lawlike and probabilistic explanation and the interrelation of explanatory notions to causal notions This unique volume brings together twenty six of his essays on subjects related to causality and explanation written over the period 1971 1995 Six of the essays have never been published before and many others have only appeared in obscure venues The volume includes a section of accessible introductory pieces as well as more advanced and technical pieces and will make essential work in the philosophy of science readily available to both scholars and students The Routledge Companion to Philosophy of Physics Eleanor Knox, Alastair Wilson, 2021-09-28 The Routledge Companion to Philosophy of Physics is a comprehensive and authoritative guide to the state of the art in the philosophy of physics It comprisess 54 self contained chapters written by leading philosophers of physics at both senior and junior levels making it the most thorough and detailed volume of its type on the market nearly every major perspective in the field is represented The Companion s 54 chapters are organized into 12 parts The first seven parts cover all of the major physical theories investigated by philosophers of physics today and the last five explore key themes that unite the study of these theories I Newtonian Mechanics II Special Relativity III General Relativity IV Non Relativistic Quantum Theory V Quantum Field Theory VI Quantum Gravity VII Statistical Mechanics and Thermodynamics VIII Explanation IX Intertheoretic Relations X Symmetries XI Metaphysics XII Cosmology The difficulty level of the chapters has been carefully pitched so as to offer both accessible summaries for those new to philosophy of physics and standard reference points for active researchers on the front lines An introductory chapter by the editors maps out the field and each part also begins with a short summary that places the individual chapters in context The volume will be indispensable to any serious student or scholar of philosophy of Eclectic Magazine of Foreign Literature, Science, and Art ,1902 The Living Age ,1902 physics Eclectic Magazine of Foreign Literature, 1902 Littell's Living Age ,1902 The Contemporary Review ,1902

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Scientific Explanation Space And Time Introduction

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