Scientific
Explanation
and the
Causal Structure
of the World

Wesley C. Salmon

# **Scientific Explanation And The Causal Structure Of The World**

Erik Weber, Jeroen Van Bouwel, Leen De Vreese

#### **Scientific Explanation And The Causal Structure Of The World:**

Scientific Explanation and the Causal Structure of the World Wesley C. Salmon, 1999 **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 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 guestion 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 and Philip Kitcher Scientific Explanation and the Casual Structure of the World Wesley Charles Salmon, 1984-01-01 **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 Scientific Explanation, Causality, and Agency Majid D. Beni, 2024-07-12 This book draws on advances in and students computational neuroscience and theoretical biology to provide a clear and accessible agentive account of the nature of causality and scientific explanations Instead of attempting to establish the elements of scientific explanation such as causality in a reality unadulterated by a human perspective this book relies on scientific facts about cognition to describe the structure of agency from a distinctly human perspective The book draws on the Free Energy Principle to reinforce the agency theory of causality and extend it to an account of explanation as well This principle not only provides a theoretical account of how self organising systems engage with the causal structure of the environment but it also offers a viable notion of agency and is compatible with the projectivist aspects of the agency theory Scientific Explanation Causality and Agency will appeal to researchers and advanced students working in philosophy of science philosophy of cognitive science epistemology computational neuroscience and theoretical biology Four Decades of Scientific Explanation Wesley C. Salmon, 2006-06-15 As Aristotle stated scientific explanation is based on deductive argument yet Wesley C Salmon points out not all deductive arguments are qualified explanations. The validity of the explanation must itself be examined Four Decades of Scientific Explanation provides a comprehensive account of the developments in scientific explanation that transpired in the last four decades of the twentieth century It continues to stand as the most comprehensive treatment of the writings on the subject during these years Building on the historic 1948 essay by Carl G Hempel and Paul Oppenheim Studies in the Logic of Explanation which introduced the deductive nomological D N model on which most work on scientific explanation was based for the following four decades Salmon goes beyond this model s inherent basis of describing empirical knowledge to tells us not only what but also why Salmon examines the predominant models in chronological order and describes their development refinement and criticism or rejection Four Decades of Scientific Explanation underscores the need for a

consensus of approach and ongoing evaluations of methodology in scientific explanation with the goal of providing a better understanding of natural phenomena Scientific Explanation Erik Weber, Jeroen Van Bouwel, Leen De Vreese, 2014-07-08 When scientist investigate why things happen they aim at giving an explanation But what does a scientific explanation look like In the first chapter Theories of Scientific Explanation of this book the milestones in the debate on how to characterize scientific explanations are exposed The second chapter How to Study Scientific Explanation scrutinizes the working method of three important philosophers of explanation Carl Hempel Philip Kitcher and Wesley Salmon and shows what went wrong Next it is the responsibility of current philosophers of explanation to go on where Hempel Kitcher and Salmon failed However we should go on in a clever way We call this clever way the pragmatic approach to scientific explanation and clarify briefly what this approach consists in The third chapter A Toolbox for Describing and Evaluating Explanatory Practices elaborates the pragmatic approach by presenting a toolbox for analysing scientific explanation In the last chapter Examples of Descriptions and Evaluations of Explanatory Practices the approach is illustrated with real life examples of scientists aiming at explaining This book can be used as a textbook for intermediate philosophy of science courses and is also valuable as suggested reading for introductory courses in philosophy of science The way the book is set up makes it an excellent study and research guide for advanced MA and PhD students that work on the topic of scientific explanation Finally it is a handy source and reference book for senior researchers in the field of scientific explanations and more generally for all Reality and Rationality the late Wesley C. Salmon, 2005-06-09 This volume of articles most philosophers of science published some new is a follow up to the late Wesley C Salmon's widely read collection Causality And Explanation OUP 1998 It contains both published and unpublished articles and focuses on two related areas of inquiry First is science a rational enterprise Secondly does science yield objective information about our world even the aspects that we cannot observe directly Salmon s own take is that objective knowledge of the world is possible and his work in these articles centers around proving that this can be so Salmon's influential standing in the field ensures that this volume will be of interest to both undergraduates and professional philosophers primarily in the philosophy of science Experience, Reality, and Scientific Explanation Maria Carla Galavotti, A. Pagnini, 2013-03-09 The papers collected here comprise the proceedings of a Workshop in honor of Merrilee and Wes Salmon held in Florence on May 17 18 1996 The aim of the meeting was to pay homage to these two American scholars whose contact with Italian and European Universities and Institutes had a major influence on Continental thought in the field of epistemology and probability In fact Merrilee and Wes spent various periods lecturing at the Universities of Bologna Florence Rome Trieste Catania and Pisa as well as in the University of Constance where they helped to build a strong cultural bridge with the Pittsburgh Center for the Philosophy of Science The Florence Center for the History and Philosophy of Science is particularly thankful to the Salmons for their ongoing cooperation and frequent visits We must not forget that Wes Salmon was in the Florence Center and at the Philosophy Department of

Florence as visiting scholar on many occasions and that he made important contributions which have later appeared in Italian journals such as Iride and Rivista di jilosojia Merrilee was a speaker at the Conference on Genetics Linguistics and Archaeology May 20 24 1991 organized by the Florence Center Both Wes and Merrilee often enlivened the arguments of the initiatives they took part in

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