

WESLEY C. SALMON

FOUR DECADES

OF SCIENTIFIC

EXPLANATION

FOREWORD BY PAUL HUMPHREYS

Four Decades Of Scientific Explanation

Wesley C. Salmon



Four Decades Of Scientific Explanation:

Four Decades of Scientific Explanation Wesley C. Salmon, 2006-07-12 First published in 1989 this book presents and analyzes the dramatic changes in philosophical conceptions of scientific explanation after the landmark 1948 essay *Studies in the Logic of Explanation* by Carl Hempel and Paul Oppenheim

Four Decades of Scientific Explanation Wesley C. Salmon, 1990

Four Decades of Scientific Explanation Wesley C. Salmon, 1989

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 does 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

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 tell 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

Reading the Book of Nature Peter Kosso, 1992-07-31 Why should we believe what science tells us about the world Observation data confirmation

of theories and the explanation of phenomena are all considered in an introductory survey of the philosophy of science

Case Studies and Theory Development in the Social Sciences Alexander L. George, Andrew Bennett, 2005-04-15 The use of case studies to build and test theories in political science and the other social sciences has increased in recent years Many scholars have argued that the social sciences rely too heavily on quantitative research and formal models and have attempted to develop and refine rigorous methods for using case studies This text presents a comprehensive analysis of research methods using case studies and examines the place of case studies in social science methodology It argues that case studies statistical methods and formal models are complementary rather than competitive The book explains how to design case study research that will produce results useful to policymakers and emphasizes the importance of developing policy relevant theories It offers three major contributions to case study methodology an emphasis on the importance of within case analysis a detailed discussion of process tracing and development of the concept of typological theories *Case Studies and Theory Development in the Social Sciences* will be particularly useful to graduate students and scholars in social science methodology and the philosophy of science as well as to those designing new research projects and will contribute greatly to the broader debate about scientific methods

Laws And Explanation In The Social Sciences Lee C McIntyre, 2018-10-08 The first full length defense of social scientific laws to appear in the last twenty years this book upholds the prospect of the nomological explanation of human behavior against those who maintain that this approach is impossible impractical or irrelevant By pursuing an analogy with the natural sciences McIntyre shows that the barriers to nomological inquiry within the social sciences are not generated by factors unique to social inquiry but arise from a largely common set of problems that face any scientific endeavor All of the most widely supported arguments against social scientific laws have failed largely due to adherence to a highly idealized conception of nomologicality allegedly drawn from the natural sciences themselves and the limited doctrine of descriptivism Basing his arguments upon a more realistic view of scientific theorizing that emphasizes the pivotal role of redescription in aiding the search for scientific laws McIntyre is optimistic about attaining useful law like explanations of human behavior

Scientific Explanation, Causality, and Agency Majid D. Beni, 2024-07-12 This book draws on advances in 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 **Explanation Beyond Causation** Alexander Reutlinger, Juha Saatsi, 2018-05-31 Explanations are important to us in many contexts in science mathematics philosophy and also in everyday and juridical contexts But what is an explanation In the philosophical study of explanation there is long standing influential tradition that links explanation intimately to causation we often explain by providing accurate information about the causes of the phenomenon to be explained Such causal accounts have been the received view of the nature of explanation particularly in philosophy of science since the 1980s However philosophers have recently begun to break with this causal tradition by shifting their focus to kinds of explanation that do not turn on causal information The increasing recognition of the importance of such non causal explanations in the sciences and elsewhere raises pressing questions for philosophers of explanation What is the nature of non causal explanations and which theory best captures it How do non causal explanations relate to causal ones How are non causal explanations in the sciences related to those in mathematics and metaphysics This volume of new essays explores answers to these and other questions at the heart of contemporary philosophy of explanation The essays address these questions from a variety of perspectives including general accounts of non causal and causal explanations as well as a wide range of detailed case studies of non causal explanations from the sciences mathematics and metaphysics **Explanation in Biology** Pierre-Alain Braillard, Christophe Malaterre, 2015-06-10 Patterns of explanation in biology have long been recognized as different from those deployed in other scientific disciplines especially that of physics Celebrating the diversity of interpretative models found in biology this volume details their varying types as well as explaining their relationships to one another It covers the key differentials with other sciences in the nature of explanation such as the existence in biology of varieties unheard of in the physical sciences such as teleological evolutionary and even functional explanations Offering a wealth of fresh analysis of the phenomenon chapters examine aspects ranging from the role of mathematics in explaining cell development to the complexities thrown up by evolutionary developmental biology where explanation is altered by multidisciplinary itself They cover major domains such as ecology and systems biology as well as contemporary trends such as the mechanistic explanations spawned by progress in molecular biology With contributions from researchers of many different nationalities the book provides a many angled perspective on a revealing feature of the discipline of biology **Technoscientific Research** Roman Z. Morawski, 2024-06-04 Unlike the bulk majority of publications on philosophy of science and research ethics which are authored by professional philosophers and intended for philosophers this book has been written by a research practitioner and intended for research practitioners It is distinctive by its integrative approach to methodological and ethical issues related to research practice with special emphasis of mathematical modelling and measurement as well as by attempted application of engineering design methodology to moral decision making It is also distinctive by more than 200 real world examples drawn from various domains of science and technology It is neither a philosophical treaty nor a quick reference

guide It is intended to encourage young researchers especially Ph D students to deeper philosophical reflection over research practice They are not expected to have any philosophical background but encouraged to consult indicated sources of primary information and academic textbooks containing syntheses of information from primary sources This book can be a teaching aid for students attending classes aimed at identification of methodological and ethical issues related to technoscientific research followed by introduction to the methodology of analysing dilemmas arising in this context Knowledge and Inquiry ,2023-03-27 ISBN 9042000694 paperback NLG 50 00 Main headings I Historical perspectives II Formal tools induction observation and identifiability III Questions in inquiry the interrogative model IV Growth of knowledge explanation and discovery V Jaakko Hintikka replies VI Abstracts skills in writing Philosophical Papers Paul Humphreys,2018-12-21 Paul Humphreys pioneered philosophical investigations into the methodological revolution begun by computer simulations He has also made important contributions to the contemporary literature on emergence by developing the fusion account of diachronic emergence and its generalization transformational emergence He is the discoverer of what has come to be called Humphreys Paradox in probability theory and has also made influential contributions to the literature on probabilistic causality and scientific explanation This collection contains fourteen of his previously published papers on topics ranging from numerical experiments to the status of scientific metaphysics There is also a previously unpublished paper on social dynamics The volume is divided into four parts on respectively computational science emergence probability and general philosophy of science The first part contains the seminal 1990 paper on computer simulations with three other papers arguing that these new methods cannot be accounted for by traditional methodological approaches The second part contains the original presentation of fusion emergence and three companion papers arguing for diachronic approaches to the topic rather than the then dominant synchronic accounts The third part starts with the paper that introduced the probabilistic paradox followed by a later evaluation of attempts to solve it A third paper argues contra Quine that probability theory is a purely mathematical theory The final section includes papers on causation explanation metaphysics and an agent based model that shows how endogenous uncertainty undermines utility maximization Each of the four parts is followed by a comprehensive postscript with retrospective assessments of each of the papers replies to some responses and in some cases elaborations of the original arguments An introduction to the volume provides a general perspective on unifying themes that run through Humphreys philosophical work *The Routledge Companion to Philosophy of Science* Martin Curd,Stathis Psillos,2008-01-31 This indispensable reference source and guide to the major themes debates problems and topics in philosophy of science contains fifty five specially commissioned entries by a leading team of international contributors Organized into four parts it covers historical and philosophical context debates concepts the individual sciences The Companion covers everything students of philosophy of science need to know from empiricism explanation and experiment to causation observation prediction and more and contains many helpful features including a section on the individual sciences

including chapters on the philosophy of biology chemistry physics and psychology further reading and cross referencing at the end of each chapter **Introduction to the Philosophy of Science** Merrilee H. Salmon, Clark Glymour, 1999-01-01

Originally published Englewood Cliffs N J Prentice Hall c1992 Understanding, Explanation, and Scientific Knowledge

Kareem Khalifa, 2017-10-05 The first comprehensive exploration of the nature and value of understanding addressing

burgeoning debates in epistemology and philosophy of science **John von Neumann and the Foundations of Quantum**

Physics Miklós Rédei, Michael Stöltzner, 2013-03-09 John von Neumann 1903 1957 was undoubtedly one of the scientific

geniuses of the 20th century The main fields to which he contributed include various disciplines of pure and applied

mathematics mathematical and theoretical physics logic theoretical computer science and computer architecture Von

Neumann was also actively involved in politics and science management and he had a major impact on US government

decisions during and especially after the Second World War There exist several popular books on his personality and various

collections focusing on his achievements in mathematics computer science and economy Strangely enough to date no

detailed appraisal of his seminal contributions to the mathematical foundations of quantum physics has appeared Von

Neumann s theory of measurement and his critique of hidden variables became the touchstone of most debates in the

foundations of quantum mechanics Today his name also figures most prominently in the mathematically rigorous branches of

contemporary quantum mechanics of large systems and quantum field theory And finally as one of his last lectures published

in this volume for the first time shows he considered the relation of quantum logic and quantum mechanical probability as his

most important problem for the second half of the twentieth century The present volume embraces both historical and

systematic analyses of his methodology of mathematical physics and of the various aspects of his work in the foundations of

quantum physics such as theory of measurement quantum logic and quantum mechanical entropy The volume is rounded off

by previously unpublished letters and lectures documenting von Neumann s thinking about quantum theory after his 1932

Mathematical Foundations of Quantum Mechanics The general part of the Yearbook contains papers emerging from the

Institute s annual lecture series and reviews of important publications of philosophy of science and its history

Philosophy of Science Timothy McGrew, Marc Alspector-Kelly, Fritz Allhoff, 2009-05-04 By combining excerpts from key

historical writings with commentary by experts Philosophy of Science An Historical Anthology provides a comprehensive

history of the philosophy of science from ancient to modern times Provides a comprehensive history of the philosophy of

science from antiquity up to the 20th century Includes extensive commentary by scholars putting the selected writings in

historical context and pointing out their interconnections Covers areas rarely seen in philosophy of science texts including

the philosophical dimensions of biology chemistry and geology Designed to be accessible to both undergraduates and

graduate students **Philosophy of Science** Yuri Balashov, Alexander Rosenberg, 2002 This comprehensive anthology

draws together writings by leading philosophers of science and will prove invaluable for any philosophy of science course

Decoding **Four Decades Of Scientific Explanation**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Four Decades Of Scientific Explanation**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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