# **Definitions**

- CLAIM: a statement that expresses the answer or conclusion to a question or problem.
  - A statement that answers the question.
- EVIDENCE: scientific data that supports the claim that must be appropriate and sufficient.
  - Can come from an investigation (controlled experiment), observations, reading material, etc.
  - Appropriate scientifically relevant
  - Sufficient enough data to support claim; usually 3 pieces of evidence



# **Scientific Explanation A Study Of The**

John-Michael Kuczynski

#### **Scientific Explanation A Study Of The:**

Scientific Explanation, a Study of the Function of Theory, Probability and Law in Science, by Richard Bevan

Braithwaite,... Richard Bevan Braithwaite,1955 Scientific Explanation a Study of the Function of Theroy, Probability and

Law in Science Richard Bevan Braithwaite, Tarner lectures, 1946, Scientific Explanation Richard Bevan

Braithwaite,1959 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

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 philosophers of science 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 and Philip Kitcher

Scientific Explanation Richard Bevan Braithwaite,1953 Mind, Meaning and Scientific Explanation John-Michael Kuczynski, A comprehensive treatise on analytic philosophy with special attention paid to the theoretical basis of psychopathology The Nature of Scientific Explanation Jude P. Dougherty,2013-01-16 In his newest work distinguished philosopher Jude P Dougherty challenges contemporary empiricisms and other accounts of science that reduce it to description and prediction Language and scientific explanation Eran Asoulin, This book discusses the two main construals of the explanatory goals of semantic theories The first externalist conception understands semantic theories in terms of a hermeneutic and interpretive explanatory project The second internalist conception understands semantic theories in terms of the psychological mechanisms in virtue of which meanings are generated It is argued that a fruitful scientific explanation is one that aims to uncover the underlying mechanisms in virtue of which the observable phenomena are made possible and that a scientific semantics should be doing just that If this is the case then a scientific semantics is unlikely to be externalist for reasons having to do with the subject matter and form of externalist theories It is argued that semantics construed hermeneutically is nevertheless a valuable explanatory project

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