

Scientific Explanation And The Causal Structure Of The World

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Scientific Explanation And The Causal

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.

Amazon.com: Scientific Explanation and the Causal ...

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.

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Scientific Explanation and the Causal Structure of the World by Wesley C. Salmon, Paperback | Barnes & Noble® The philosophical theory of scientific explanation proposed here involves a radically new treatment of causality that accords with the pervasively Our Stores Are OpenBook AnnexMembershipEducatorsGift CardsStores & EventsHelp

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7.7.2 The causal conception of scientific explanation. The causal explanation is referring not so much to the logic of a theory but rather to the explanation of the internal physical mechanism of phenomenon. "Explaining the world and what is going on in it means, accordingly, laying bare its inner working, its underlying causal mechanisms." (J.A. Kourany).

Causal Explanation - an overview | ScienceDirect Topics

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....

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With regard to the philosophy of science, the 'scientific realist' school of thought has emphasized that causal mechanisms, or independent stable

factors that under certain conditions link causes to effects, are important to causal explanation (Little 1998).

Causal Explanation - an overview | ScienceDirect Topics

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The first concerns the role of causal information in scientific explanation. It is a plausible, although by no means inevitable, judgement. that many of the difficulties faced by the models described above derive from their reliance on what appear to be inadequate treatments of causation and causal relevance. The problems of explanatory asymmetries and explanatory irrelevance described in section 2.5 seem to show that the holding of a law (understood as a regularity) between (C) and (E) ...

Scientific Explanation (Stanford Encyclopedia of Philosophy)

2 Psychology of Science: Influence on the Philosophy of Science; 3 Methodological Approaches to Scientific and Technological Thinking; 4 The Role of Psychology in an Agent-Centered Theory of Science; 5 The Acting Person in Science Practice; 6 Inference to the Best Explanation (IBE) and the Causal and Scientific Reasoning of Nonscientists

Inference to the Best Explanation (IBE) and the Causal and ...

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Accordingly, the causal Markov condition is formulated in terms of causal structures that depict intra-unit causal relations only. It is therefore worth highlighting a methodological principle for causal inference: the units should be so chosen that they do not interfere with each other, a principle that, fortunately, is often observed in practice.

CHOICE OF UNITS AND THE CAUSAL MARKOV CONDITION ...

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 is untenable and that the modal conception is scientifically out-dated.

Wesley Salmon, Scientific Explanation and the Causal ...

Salmon's explanation of causal processes drew a number of criticisms, whereupon Salmon explained that causal processes and causal interactions are "the basic causal mechanisms", while causal interactions are more fundamental than causal processes, but causal processes were discussed first for practical reasons.

Wesley C. Salmon - Wikipedia

I argue that mathematical scientific explanations that invoke laws of nature are qualitative explanations, and ordinary scientific explanations that employ mathematics are quantitative explanations. I analyse the repercussions of this deductivenomological model on causal explanations. Author

Biography

A deductive-nomological model for mathematical scientific ...

As a member of such a lively philosophical community Salmon enjoyed a most congenial atmosphere for twenty extremely productive years, leading to the publication of the book *Scientific Explanation and the Causal Structure of the World* (1984), a milestone of the literature on scientific explanation and the apex of Salmon's work on the topic, the collection, edited with Philip Kitcher, *Scientific Explanation* (1989), which included as a chapter the essay "Four Decades of Scientific ...

Wesley Salmon (Stanford Encyclopedia of Philosophy)

This video discusses the causal-mechanical model of explanation, which claims that to explain an event is to cite the important causal processes and interactions leading to the event. Slides for ...

Scientific Explanation 3 - The Causal-Mechanical Model

Theories of Explanation Within the philosophy of science there have been competing ideas about what an explanation is. Historically, explanation has been associated with causation: to explain an event or phenomenon is to identify its cause.

Theories of Explanation | Internet Encyclopedia of Philosophy

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.

Scientific Explanation and the Causal Structure of the ...

Causality(also referred to as causation,or cause and effect) is influence by which one event, process, state or object (a cause) contributes to the production of another event, process, state or object (an effect)where the cause is partly responsible for the effect, and the effect is partly dependent on the cause.

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