



Scientific Progress

A Loxley



Scientific Progress:

Theories of Scientific Progress John Losee, 2004 There seems little doubt that we have made progress in scientific theories but how Theories of Scientific Progress presents the arguments covers interpretations of scientific progress and discusses the latest contemporary debates

Scientific Progress Craig Dilworth, 2008-10-13 Kuhn and Feyerabend formulated the problem Dilworth provides the solution In the fourth edition of this highly original book Craig Dilworth answers the questions raised by the incommensurability thesis Logical empiricism cannot account for theory conflict Popperianism cannot account for how one theory is a progression beyond another Dilworth's Perspectivist conception of science covers both bases with a concept of scientific progress based on both rationalism and empiricism

Scientific Progress Darrell P. Rowbottom, 2023-10-12 What constitutes cognitive scientific progress This Element begins with an extensive survey of the contemporary debate on how to answer this question It provides a blow by blow critical summary of the key literature on the issue over the past fifteen years covering the central positions and arguments therein It also draws upon older literature where appropriate to inform the treatment The Element then enters novel territory by considering meta normative issues concerning scientific progress It focuses on how the standards involved in assessing progress arise Does science have aims which determine what counts as progress as many authors assume If so what is it to be an aim of science And how does one identify such things If not how do normative standards arise After arguing that science does not have overarching aims the Element proposes that the standards are ultimately subjective

The Origins of the Idea of Scientific Progress Daniel Špelda, 2024-06-21 This volume offers a new interpretation of the genesis of the idea of scientific progress in early modern science and philosophy The interpretation argues that the idea of scientific progress was not a historical category but an epistemological one The main thesis of the book posits that the idea of scientific progress was a methodological means of dealing with the contingency of nature To illustrate the novelty of the idea the individual chapters compare several features of Renaissance natural philosophy with a new regime of knowledge that included time as an inevitable factor of empirical research The temporal regime of knowledge is illustrated by the work of Bernard de Fontenelle and his colleagues at the Académie des sciences in Paris at the end of the 17th century The new interpretation remedies a gap in recent scholarship where the idea of scientific progress has been overlooked even though the early modern natural philosophers themselves used it to describe the nature of their research The book places both well known texts and less studied documents in a new light thus contributing to the lively and rich debate on the origins and nature of early modern science and philosophy It is of interest to scholars studying the history of early modern philosophy and science

New Philosophical Perspectives on Scientific Progress Yafeng Shan, 2022-11-01 This collection of original essays offers a comprehensive examination of scientific progress which has been a central topic in recent debates in philosophy of science Traditionally debates over scientific progress have focused on different methodological approaches notably the epistemic and

semantic approaches The chapters in Part I of the book examine these two traditional approaches as well as the newly revived functional and newly developed noetic approaches Part II features in depth case studies of scientific progress from the history of science The chapters cover individual sciences including physics chemistry evolutionary biology seismology psychology sociology economics and medicine Finally Part III of the book explores important issues from contemporary philosophy of science These chapters address the implications of scientific progress for the scientific realism anti realism debate incommensurability values in science idealisation scientific speculation interdisciplinarity and scientific perspectivalism *New Philosophical Perspectives on Scientific Progress* will be of interest to researchers and advanced students working on the history and philosophy of science

Progress and Its Problems Larry Laudan, 1978-10-27 A book that shakes philosophy of science to its roots Laudan both destroys and creates With detailed scathing criticisms he attacks the pregnant confusions in extant philosophies of science The progress they espouse derives from strictly empirical criteria he complains and this clashes with historical evidence Accordingly Laudan constructs a remedy from historical examples that involves nothing less than the redefinition of scientific rationality and progress Surprisingly after this reshuffling science still looks like a noble and progressive enterprise The glory of Laudan's system is that it preserves scientific rationality and progress in the presence of social influence We can admit extra scientific influences without lapsing into complete relativism a must for both observers and practitioners of science

Physics Today A critique and substantial revision of the historic theories of scientific rationality and progress Popper Kuhn Lakatos Feyerabend etc Laudan focuses on contextual problem solving effectiveness carefully defined as a criterion for progress and expands the notion of paradigm to a research tradition thus providing a meta empirical basis for the commensurability of competing theories From this perspective Laudan suggests revised programs for history and philosophy of science the history of ideas and the sociology of science A superb work closely argued clearly written and extensively annotated this book will become a widely required text in intermediate courses

On the Possibility and Desirability of Scientific Progress , Investing in Scientific Progress, 1961-1970

National Science Foundation (U.S.), 1961

International Relations and Scientific Progress Patrick James, 2002

International Relations and Scientific Progress contends that a theory focusing on the structure of the international system explains a wider and more interesting range of events in world politics than other theories Such theorizing appears to be out of favor as the result of the apparent failure by structural realism the most prominent system level theory over the last two decades on any number of fronts most notably an inability to anticipate the ending of the Cold War and its aftermath This new book is put forward as the most comprehensive and innovative theoretical work on paradigms in international relations since the publication of *Theory of International Politics* which created structural realism more than two decades ago With appropriate revisions however structural realist theory can compete effectively and reclaim its primacy The first part of *International Relations and Scientific Progress* assesses the meaning of progress in the discipline of international relations a

process that culminates in the creation of a new concept the scientific research enterprise The second part reviews structural realism within that context and identifies a lack of connection between theory and research that links power based indicators to international conflict crisis and war This part of the book makes the case for an elaboration of structural realism by showing that a system level theory based on structure has great unrealized explanatory potential By comparison the current overwhelmingly research oriented agenda on state dyads imposes severe limitations on understanding that are not currently appreciated Part Three sums up the work and explores new directions most notably as related to empirical testing of an elaborated version of structural realism that focuses on both continuity and change in the international system Scientific Progress Report, July-December, 1947 Brookhaven National Laboratory, 1947 **Scientific Progress, the Universities, and the Federal Government** United States President of the United States, 1960 **Scientific Progress, the Universities, and the Federal Government** United States. President's Science Advisory Committee, 1960 **Models of Scientific Development and the Case of Nuclear Magnetic Resonance** Henk Zandvoort, 2012-12-06 From the nineteen sixties onwards a branch of philosophy of science has come to development called history oriented philosophy of science This development constitutes a reaction on the then prevailing logical empiricist conception of scientific knowledge The latter was increasingly seen as suffering from insurmountable internal problems like e g the problems with the particular observational theoretical distinction on which it drew In addition the logical empiricists general approach was increasingly criticized for two external shortcomings Firstly the examples of scientific knowledge that the logical empiricists were focusing on were considered as too simplistic to be informative on the nature of real life science Secondly it was felt that the attention of these philosophers of science was restricted to the static aspects of scientific knowledge while neglecting its developmental aspects History oriented philosophy of science has taken up the challenge implicit in the latter two criticisms i e to develop accounts of science that would be more adequate for understanding the development of real life science One of the more successful products of this branch of philosophy of science is Lakatos's theory of scientific development sometimes called the methodology of scientific research programmes This theory conceives science as consisting of so called research programmes developing in time and competing with each other over the issue which one generates the best explanations of the phenomena that they address **Pragmatic Idealism and Scientific Prediction** Amanda Guillán, 2017-08-30 This monograph analyzes Nicholas Rescher's system of pragmatic idealism It also looks at his approach to prediction in science Coverage highlights a prominent contribution to a central topic in the philosophy and methodology of science The author offers a full characterization of Rescher's system of philosophy She presents readers with a comprehensive philosophico methodological analysis of this important work Her research takes into account different thematic realms semantic logical epistemological methodological ontological axiological and ethical The book features three thematic parts I General Coordinates Semantic Features and Logical Components of Scientific Prediction II Predictive Knowledge and Predictive

Processes in Rescher's Methodological Pragmatism and III From Reality to Values Ontological Features Axiological Elements and Ethical Aspects of Scientific Prediction This insightful analysis offers a critical reconstruction of Rescher's philosophy The system he created is often characterized as pragmatic idealism that is open to some realist elements He is a prominent representative of contemporary pragmatism who has made a great deal of contributions to the study of this topic This area is crucial for science and it has been little considered in the philosophy of science **Embracing Scientific Realism**

Seungbae Park, 2021-12-02 This book provides philosophers of science with new theoretical resources for making their own contributions to the scientific realism debate Readers will encounter old and new arguments for and against scientific realism They will also be given useful tips for how to provide influential formulations of scientific realism and antirealism Finally they will see how scientific realism relates to scientific progress scientific understanding mathematical realism and scientific practice **Theories of Scientific Progress** John Losee, 2004-06 There seems little doubt that we have made progress in scientific theories but how Theories of Scientific Progress presents the arguments covers interpretations of scientific progress and discusses the latest contemporary debates **On Comparing and Evaluating Scientific Theories**

Adam Jonkisz, Leon Koj, 2000 Contents Leon KOJ Methodology and values Leon KOJ Science as system Adam GROBLER Explanation and epistemic virtue Piotr GIZA Intelligent computer systems and theory comparison Henryk OGRYZKO WIEWIEROWSKI Methods of social choice of scientific theories Kazimierz JODKOWSKI Is the causal theory of reference a remedy for ontological incommensurability Wolfgang BALZER On approximative reduction C ULISES MOULINES Is there genuinely scientific progress Adam JONKISZ On relative progress in science **African Perspectives on Scientific Freedom** UNESCO, 2024-12-31 **Scientific Progress in Recent Times** George Percy Bailey, 1935 **Scientific Freedom** Sebastian Porsdam Mann, Helle Porsdam, Maximilian M. Schmid, Péter Vilmos Treit, 2024-01-04 Scientists are supposed to have freedom to choose and conduct their experiments and exchange their ideas Known as scientific freedom this idea has been implicated in both wonderful and terrible scientific discoveries Although it is not new it has great relevance to contemporary society In a time of genetic editing global warming and a worldwide pandemic the question of how freely science is and should be conducted is one that has significant practical consequences Drawing on rigorous interdisciplinary methods this book defines the concept of scientific freedom tells its story and asks on what basis scientific freedom is best justified Based on international human rights law and philosophy the authors develop a model of scientific freedom as a constitutive element of the human right to enjoy the benefits of the progress of science and its applications To illustrate its usefulness they then test and apply this model to a real life and real time case study as well as to two highly important international human rights instruments

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