

SCIENTIFIC MODELS

- Representation of an object, idea, or process
- Scientists often use **MODELS** as a tool to understand an object or idea.
 - 3-D representation
 - 2-D diagram
 - Physical Analogy
 - Theoretical Analogy or Metaphor



Models Representation And The Scientific Understanding

Insa Lawler, Kareem Khalifa, Elay Shech



Models Representation And The Scientific Understanding:

Models Marx W. Wartofsky, 2012-12-06 Marx Wartofsky has been working for many years within an unusual confluence of philosophical problems He brings to these intersecting problems his comprehensive intelligence at once imaginative and rigorous analytic and historical He is a philosopher s philosopher but also Everyman s Wartofsky is philosopher of the natural and the social sciences of perception esthetics and the creative arts of the 18th century French and the 19th century Germans of politics and morality of the methods and morals of medicine and it is plain of all human existence To a colleague he seems Jack of all philosophical trades and master of them too The reader soon will learn that Wartofsky is a genial lucid and relaxed philosophical companion deeply serious but without noticeable anxiety I need not highlight these selected epistemological papers gathered as and about Models since Wartofsky s own introductory remarks are helpful and stimulating in that respect I need only after 21 years of friendship and collaboration with him warn the reader to beware of how profound and provocative these papers will show themselves to be beneath their good humored and swiftly flowing surface And I must publicly note the pleasure with which I welcome Marx Wartofsky s volume to our Boston Studies Boston University R S C Center for the Philosophy and History of Science September 1979 vii TABLE OF CONTENTS EDITORIAL PREFACE VII xi AC K NOWLEDGEMENTS xiii INTRODUCTION The Model Muddle Proposals for an Immodest Realism 1

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Boston Studies in the Philosophy of Science Cohen, Robert Sonn  Cohen, Marx W. Wartofsky, 1979 **Scientific Understanding and Representation** Insa Lawler, Kareem Khalifa, Elay Shech, 2022-12-13 This volume assembles cutting edge scholarship on scientific understanding scientific representation and their delicate interplay Featuring several articles

in an engaging critical conversation format the volume integrates discussions about understanding and representation with perennial issues in the philosophy of science including the nature of scientific knowledge idealizations scientific realism scientific inference and scientific progress In the philosophy of science questions of scientific understanding and scientific representation have only recently been put in dialogue with each other The chapters advance these discussions from a variety of fresh perspectives They range from case studies in physics chemistry and neuroscience to the representational challenges of machine learning models from special forms of representation such as maps and topological models to the relation between understanding and explanation and from the role of idealized representations to the role of representation and understanding in scientific progress *Scientific Understanding and Representation* will appeal to scholars and advanced students working in philosophy of science philosophy of physics philosophy of mathematics and epistemology

How to Do Science with Models Axel Gelfert, 2015-12-21 Taking scientific practice as its starting point this book charts the complex territory of models used in science It examines what scientific models are and what their function is Reliance on models is pervasive in science and scientists often need to construct models in order to explain or predict anything of interest at all The diversity of kinds of models one finds in science ranging from toy models and scale models to theoretical and mathematical models has attracted attention not only from scientists but also from philosophers sociologists and historians of science This has given rise to a wide variety of case studies that look at the different uses to which models have been put in specific scientific contexts By exploring current debates on the use and building of models via cutting edge examples drawn from physics and biology the book provides broad insight into the methodology of modelling in the natural sciences It pairs specific arguments with introductory material relating to the ontology and the function of models and provides some historical context to the debates as well as a sketch of general positions in the philosophy of scientific models in the process

Understanding Scientific Understanding Henk W. de Regt, 2017-07-24 It is widely acknowledged that a central aim of science is to achieve understanding of the world around us and that possessing such understanding is highly important in our present day society But what does it mean to achieve this understanding What precisely is scientific understanding These are philosophical questions that have not yet received satisfactory answers While there has been an ongoing debate about the nature of scientific explanation since Carl Hempel advanced his covering law model in 1948 the related notion of understanding has been largely neglected because most philosophers regarded understanding as merely a subjective by product of objective explanations By contrast this book puts scientific understanding center stage It is primarily a philosophical study but also contains detailed historical case studies of scientific practice In contrast to most existing studies in this area it takes into account scientists views and analyzes their role in scientific debate and development The aim of *Understanding Scientific Understanding* is to develop and defend a philosophical theory of scientific understanding that can describe and explain the historical variation of criteria for understanding actually employed by scientists The theory does

justice to the insights of such famous physicists as Werner Heisenberg and Richard Feynman while bringing much needed conceptual rigor to their intuitions The scope of the proposed account of understanding is the natural sciences while the detailed case studies derive from physics examples from other sciences are presented to illustrate its wider validity

Models and Theories Roman Frigg, 2022-06-28 Models and theories are of central importance in science and scientists spend substantial amounts of time building testing comparing and revising models and theories It is therefore not surprising that the nature of scientific models and theories has been a widely debated topic within the philosophy of science for many years The product of two decades of research this book provides an accessible yet critical introduction to the debates about models and theories within analytical philosophy of science since the 1920s Roman Frigg surveys and discusses key topics and questions including What are theories What are models And how do models and theories relate to each other The linguistic view of theories also known as the syntactic view of theories covering different articulations of the view its use of models the theory observation divide and the theory ladenness of observation and the meaning of theoretical terms The model theoretical view of theories also known as the semantic view of theories covering its analysis of the model world relationship the internal structure of a theory and the ontology of models Scientific representation discussing analogy idealisation and different accounts of representation Modelling in scientific practice examining how models relate to theories and what models are classifying different kinds of models and investigating how robustness analysis perspectivism and approaches committed to uncertainty management deal with multi model situations Models and Theories is the first comprehensive book length treatment of the topic making it essential reading for advanced undergraduates researchers and professional philosophers working in philosophy of science and philosophy of technology It will also be of interest to philosophically minded readers working in physics computer sciences and STEM fields more broadly Models and Idealizations in Science Alejandro Cassini, Juan Redmond, 2021-05-27 This book provides both an introduction to the philosophy of scientific modeling and a contribution to the discussion and clarification of two recent philosophical conceptions of models artifactualism and fictionalism These can be viewed as different stances concerning the standard representationalist account of scientific models By better understanding these two alternative views readers will gain a deeper insight into what a model is as well as how models function in different sciences Fictionalism has been a traditional epistemological stance related to antirealist construals of laws and theories such as instrumentalism and inferentialism By contrast the more recent fictional view of models holds that scientific models must be conceived of as the same kind of entities as literary characters and places This approach is essentially an answer to the ontological question concerning the nature of models which in principle is not incompatible with a representationalist account of the function of models The artifactual view of models is an approach according to which scientific models are epistemic artifacts whose main function is not to represent the phenomena but rather to provide epistemic access to them It can be conceived of as a non

representationalist and pragmatic account of modeling which does not intend to focus on the ontology of models but rather on the ways they are built and used for different purposes The different essays address questions such as the artifactual view of idealization the use of information theory to elucidate the concepts of abstraction and idealization the deidealization of models the nature of scientific fictions the structural account of representation and the ontological status of structures the role of surrogate reasoning with models and the use of models for explaining and predicting physical phenomena

Modelling Nature: An Opinionated Introduction to Scientific Representation Roman Frigg, James Nguyen, 2020-09-02 This monograph offers a critical introduction to current theories of how scientific models represent their target systems Representation is important because it allows scientists to study a model to discover features of reality The authors provide a map of the conceptual landscape surrounding the issue of scientific representation arguing that it consists of multiple intertwined problems They provide an encyclopaedic overview of existing attempts to answer these questions and they assess their strengths and weaknesses The book also presents a comprehensive statement of their alternative proposal the DEKI account of representation which they have developed over the last few years They show how the account works in the case of material as well as non material models how it accommodates the use of mathematics in scientific modelling and how it sheds light on the relation between representation in science and art The issue of representation has generated a sizeable literature which has been growing fast in particular over the last decade This makes it hard for novices to get a handle on the topic because so far there is no book length introduction that would guide them through the discussion Likewise researchers may require a comprehensive review that they can refer to for critical evaluations This book meets the needs of both groups

Scientific Understanding Anna Elisabeth Höhl, 2024-04-02 Understanding is an ability manifested by grasping relations of a phenomenon and articulating new explanations Hence scientific understanding is inextricably intertwined with and not possible without explanation and understanding is not a type of propositional knowledge Anna Elisabeth Höhl provides a novel philosophical account of scientific understanding by developing and defending necessary and sufficient conditions for the understanding that scientists achieve of the phenomena they are researching This account of scientific understanding is based on and supported by a detailed investigation of an episode from scientific practice in biology

Scientific Philosophy Today J. Agassi, Robert S. Cohen, 2013-06-29 This volume is dedicated to Mario Bunge in honor of his sixtieth birthday Mario Bunge is a philosopher of great repute whose enormous output includes dozens of books in several languages which will culminate with his Treatise on Basic Philosophy projected in seven volumes four of which have already appeared Reidel I 974ff He is known for his works on research methods the foundations of physics biology the social sciences the diverse applications of mathematical methods and of systems analysis and more Bunge stands for exact philosophy classical liberal social philosophy rationalism and enlightenment He is brave even relentless in his attacks on subjectivism mentalism and spiritualism as well as on positivism mechanism and dialectics He believes in logic and clarity in science and open

mindedness not as the philosopher's equivalent to the politician's rhetoric of motherhood and apple pie but as a matter of everyday practice as qualities to cultivate daily in our pursuit of the life worth living Bunge's philosophy often has the quality of Columbus's egg and he is prone to come to swift and decisive conclusions on the basis of arguments which seem to him valid he will not be perturbed by the fact that most of the advanced thinkers in the field hold different views On Scientific Discovery Mirko Drazen Grmek, Robert S. Cohen, Guido Cimino, 2012-12-06 The 1977 lectures of the International School for the History of Science at Erice in Sicily were devoted to that vexing but inexorable problem the nature of scientific discovery With all that has been written by scientists themselves by historians and philosophers and social theorists by psychologists and psychiatrists by logicians and novelists the problem remains elusive Happily we are able to bring the penetrating lectures from Erice that summer to a wider audience in this volume of theoretical investigations and detailed case studies The ancient and lovely town of Erice in Northwest Sicily 750 m above the sea was famous throughout the Mediterranean for its temple of the goddess of nature Venus Erycina said to have been built by Daedalus As philosophers and historians of the natural sciences we hope that the stimulating atmosphere of Erice will to some extent be transmitted by these pages We are especially grateful to that generous and humane physician and historian of science Dr Vincenzo Cappelletti himself a creative scientist for his collaboration in bringing this work to completion We admire his intelligent devotion to fostering creative interaction between scientists and historians of science as Director of the School of History of Science within the great Ettore Majorana Centre for Scientific Culture at Erice as well as for his imaginative leadership of the Istituto della Enciclopedia Italiana Scientific Discovery: Case Studies Thomas Nickles, 2012-12-06 The history of science is articulated by moments of discovery Yet these moments are not simple or isolated events in science Just as a scientific discovery illuminates our understanding of nature or of society and reveals new connections among phenomena so too does the history of scientific activity and the analysis of scientific reasoning illuminate the processes which give rise to moments of discovery and the complex network of consequences which follow upon such moments Understanding discovery has not been until recently a major concern of modern philosophy of science Whether the act of discovery was regarded as mysterious and inexplicable or obvious and in no need of explanation modern philosophy of science in effect bracketed the question It concentrated instead on the logic of scientific explanation or on the issues of validation or justification of scientific theories or laws The recent revival of interest in the context of discovery indeed in the acts of discovery on the part of philosophers and historians of science represents no one particular methodological or philosophical orientation It proceeds as much from an empiricist and analytical approach as from a sociological or historical one from considerations of the logic of science as much as from the logical or extralogical contexts of scientific thought and practice But in general this new interest focuses sharply on the actual historical and contemporary cases of scientific discovery and on an examination of the act or moment of discovery in situ

Scientific Discovery, Logic, and Rationality Thomas Nickles, 2012-12-06 It is fast becoming a cliché that scientific

discovery is being rediscovered For two philosophical generations that of the Founders and that of the Followers of the logical positivist and logical empiricist movements discovery had been consigned to the domain of the intractable the ineffable the inscrutable The philosophy of science was focused on the so called context of justification as its proper domain More recently as the exclusivity of the logical reconstruction program in philosophy of science came under question and as the critique of justification developed within the framework of logical and epistemological analysis the old question of scientific discovery which had been put on the back burner began to emerge once again Emphasis on the relation of the history of science to the philosophy of science and attention to the question of theory change and theory replacement also served to legitimate a new concern with the origins of scientific change to be found within discovery and invention How welcome then to see what a wide range of issues and what a broad representation of philosophers and historians of science have been brought together in the present two volumes of the Boston Studies in the Philosophy of Science For what these volumes achieve in effect is the continuation of a tradition which had once been strong in the philosophy of science namely that tradition which addressed the question of scientific discovery as a central question in the understanding of science

World Views and Scientific Discipline Formation W.R. Woodward, Robert S. Cohen, 2012-12-06 The various efforts to develop a Marxist philosophy of science in the one time socialist countries were casualties of the Cold War Even those who were in no way Marxists and those who were undogmatic in their Marxisms now confront a new world All the more harsh is it for those who worked within the framework imposed upon professional philosophy by the official ideology Here in this book we are concerned with some 31 colleagues from the late German Democratic Republic representative in their scholarship of the achievements of a curiously creative while dismayingly repressive period The literature published in the GDR was blossoming certainly in the final decade but it developed within a totalitarian regime where personal careers either advanced or faltered through the private protection or denunciation of mentors We will never know how many good minds did not enter the field of philosophy in the first place due to their prudent judgments that there was a virtual requirement that the candidate join the Socialist Unity i e Communist Party Among those who started careers and were sidetracked the record is now beginning to be revealed and for the rest the price of doing philosophy was mostly silence in the face of harassments the likes of which make academic politics in the West seem child's play

Nietzsche, Theories of Knowledge, and Critical Theory B.E. Babich, 2013-03-09 Nietzsche Theories of Knowledge and Critical Theory the first volume of a two volume book collection on Nietzsche and the Sciences ranges from reviews of Nietzsche and the wide variety of epistemic traditions not only pre Socratic but Cartesian Leibnizian Kantian and post Kantian through essays on Nietzsche's critique of knowledge via his critique of grammar and modern culture and culminates in an extended section on the dynamic of Nietzsche's critical philosophy seen from the perspective of Habermas and critical theory This volume features a first time English translation of Habermas's afterword to his own German language collection of Nietzsche's Epistemological Writings *Nietzsche,*

Theories of Knowledge, and Critical Theory Babette Babich, Robert S. Cohen, 1999-08-31 Nietzsche Theories of Knowledge and Critical Theory the first volume of a two volume book collection on Nietzsche and the Sciences ranges from reviews of Nietzsche and the wide variety of epistemic traditions not only pre Socratic but Cartesian Leibnizian Kantian and post Kantian through essays on Nietzsche s critique of knowledge via his critique of grammar and modern culture and culminates in an extended section on the dynamic of Nietzsche s critical philosophy seen from the perspective of Habermas and critical theory This volume features a first time English translation of Habermas s afterword to his own German language collection of Nietzsche s Epistemological Writings

Theoretical Knowledge Vyacheslav S. Stepin, 2005-11-13 In Theoretical Knowledge an original conception of a structure and dynamics of scientific knowledge is proposed A detailed analysis of the foundations of science performed by the author allowed him to develop new ideas and approaches to demonstrate how sociocultural factors are incorporated in the process of yielding of new theories He shows direct and inverse links between foundations of science and new theories and empirical facts evolved from those how among many potentially possible histories of science a culture selects just those directions which become a real history of science The author analyses mechanisms of the generation of scientific theories and shows that those are changed in the process of historical development of science He displays three historical types of scientific rationality classical non classical and post non classical which appears in modern science and shows features of their coexistence and interplay It is shown that along with the emerging of post non classical rationality science increases the sphere of its worldview applications Science begins to correlate not only with the basic values of technogenic civilization but also with some values and patterns of traditional cultures The investigation is based on the extensive literature on the history of natural and social sciences The reader will find in the book authentic historical reconstructions of the processes of the development of classical and quantum electrodynamics relativity and conceptions of evolution in biology

The Concept of Scientific Law in the Philosophy of Science and Epistemology Igor Hanzel, 2013-03-14 The author argues that a reconstruction of scientific laws should give an account of laws relating phenomena to underlying mechanisms generating them as well as of laws relating this mechanism to its inherent capacities While contemporary philosophy of science deals only with the former the author provides the concept for the reconstruction of scientific laws where the knowledge of the phenomena enables one to grasp the quantity of their cause He then provides the concepts for scientific laws dealing with the relation of the quantity and quality of the cause underlying phenomena to the quality and quantity of its capacities Finally he provides concepts for scientific laws expressing how a certain cause due to the quantity and quality of its capacities generates the quantitative and qualitative determinations of its manifestations The book is intended for philosophers of science and philosophers of social science as well as for natural and social scientists

Mechanics and Natural Philosophy before the Scientific Revolution Walter Roy Laird, Sophie Roux, 2008-01-01 Modern mechanics was forged in the seventeenth century from materials inherited

from Antiquity and transformed in the period from the Middle Ages through to the sixteenth century. These materials were transmitted through a number of textual traditions and within several disciplines and practices including ancient and medieval natural philosophy, statics, the theory and design of machines and mathematics. This volume deals with a variety of moments in the history of mechanics when conflicts arose within one textual tradition, between different traditions, or between textual traditions and the wider world of practice. Its purpose is to show how the accommodations sometimes made in the course of these conflicts ultimately contributed to the emergence of modern mechanics. The first part of the volume is concerned with ancient mechanics and its transformations in the Middle Ages; the second part with the reappropriation of ancient mechanics and especially with the reception of the Pseudo-Aristotelian *Mechanica* in the Renaissance; and the third and final part with early modern mechanics in specific social, national and institutional contexts.

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