



IDEAS IN CONTEXT

Models AS Mediators

PERSPECTIVES ON NATURAL
AND SOCIAL SCIENCE

velocity of circulation. The total value of purchases in a year is therefore no longer to be measured by MV , but by $MV + M'V'$. The equation of exchange, therefore, becomes: —

$$MV + M'V' = \Sigma pQ = PT.$$

Let us again represent the equation of exchange by means of a mechanical picture. In Figure 4, trade,



FIG. 4.

as before, is represented on the right by the weight of a miscellaneous assortment of goods; and their average price by the distance to the right from the fulcrum, or the length of the arm on which this weight hangs.

EDITED BY

MARY S. MORGAN AND
MARGARET MORRISON

Models As Mediators Perspectives On Natural And Social Science

Aura Heydenreich, Klaus Mecke



Models As Mediators Perspectives On Natural And Social Science:

Models as Mediators Mary S. Morgan, Margaret Morrison, 1999-10-21 Edited collection examining the ways in which models are used in modern science

Models, Simulations, and Representations Paul Humphreys, Cyrille Imbert, 2013-03-01 Although scientific models and simulations differ in numerous ways they are similar in so far as they are posing essentially philosophical problems about the nature of representation This collection is designed to bring together some of the best work on the nature of representation being done by both established senior philosophers of science and younger researchers Most of the pieces while appealing to existing traditions of scientific representation explore new types of questions such as how understanding can be developed within computational science how the format of representations matters for their use be it for the purpose of research or education how the concepts of emergence and supervenience can be further analyzed by taking into account computational science or how the emphasis upon tractability a particularly important issue in computational science sheds new light on the philosophical analysis of scientific reasoning

Computer Modelling in Atmospheric and Oceanic Sciences Peter K. Müller, 2013-03-09 The book describes what these models are what they are based on how they function and then most innovatively how they can be used to generate new useful knowledge about the environmental system Discusses this generation of knowledge by computer models from an epistemological perspective and illustrates it by numerous examples from applied and fundamental research Includes ample technical appendices and is a valuable source of information for graduate students and scientists alike working in the field of environmental sciences

Cultures of Prediction Ann Johnson, Johannes Lenhard, 2024-05-07 A probing examination of the dynamic history of predictive methods and values in science and engineering that helps us better understand today's cultures of prediction The ability to make reliable predictions based on robust and replicable methods is a defining feature of the scientific endeavor allowing engineers to determine whether a building will stand up or where a cannonball will strike *Cultures of Prediction* which bridges history and philosophy uncovers the dynamic history of prediction in science and engineering over four centuries Ann Johnson and Johannes Lenhard identify four different cultures or modes of prediction in the history of science and engineering rational empirical iterative numerical and exploratory iterative They show how all four develop together and interact with one another while emphasizing that mathematization is not a single unitary process but one that has taken many forms The story is not one of the triumph of abstract mathematics or technology but of how different modes of prediction complementary concepts of mathematization and technology coevolved building what the authors call cultures of prediction The first part of the book examines prediction from early modernity up to the computer age The second part probes computer related cultures of prediction which focus on making things and testing their performance often in computer simulations This new orientation challenges basic tenets of the philosophy of science in which scientific theories and models are predominantly seen as explanatory rather than predictive It also influences the types of research projects

that scientists and engineers undertake as well as which ones receive support from funding agencies *Models* Soraya de Chadarevian, Nick Hopwood, 2004 Now that 3 D models are so often digital displays on flat screens it is timely to look back at the solid models that were once the third dimension of science This book is about wooden ships and plastic molecules wax bodies and a perspex economy monuments in cork and mathematics in plaster casts of diseases habitat dioramas and extinct monsters rebuilt in bricks and mortar These remarkable artefacts were fixtures of laboratories and lecture halls studios and workshops dockyards and museums Considering such objects together for the first time this interdisciplinary volume demonstrates how in research as well as in teaching 3 D models played major roles in making knowledge Accessible and original chapters by leading scholars highlight the special properties of models explore the interplay between representation in two dimensions and three and investigate the shift to modelling with computers The book is fascinating reading for anyone interested in the sciences medicine and technology and in collections and museums Physics and Literature Aura Heydenreich, Klaus Mecke, 2021-12-20 Physics and Literature is a unique collaboration between physicists literary scholars and philosophers the first collection of essays to examine together how science and literature beneath their practical differences share core dimensions forms of questioning thinking discovering and communicating insights This book advances an in depth exploration of relations between physics and literature from both perspectives It turns around the tendency to discuss relations between literature and science in one sided and polarizing ways The collection is the result of the inaugural conference of ELINAS the Erlangen Center for Literature and Natural Science an initiative dedicated to building bridges between literary and scientific research ELINAS revitalizes discussion of science literature interconnections with new topics ideas and angles by organizing genuine dialogue among participants across disciplinary lines The essays explore how scientific thought and practices are conditioned by narrative and genre fiction models and metaphors and how science in turn feeds into the meaning making of literary and philosophical texts These interdisciplinary encounters enrich reflections on epistemology cognition and aesthetics **Models, Simulations, and the Reduction of Complexity** Ulrich Gähde, Stephan Hartmann, Jörn Henning Wolf, 2013-11-27 Modern science is to a large extent a model building activity But how are models constructed How are they related to theories and data How do they explain complex scientific phenomena and which role do computer simulations play here These questions have kept philosophers of science busy for many years and much work has been done to identify modeling as the central activity of theoretical science At the same time these questions have been addressed by methodologically minded scientists albeit from a different point of view While philosophers typically have an eye on general aspects of scientific modeling scientists typically take their own science as the starting point and are often more concerned with specific methodological problems There is however also much common ground in middle where philosophers and scientists can engage in a productive dialogue as the present volume demonstrates To do so the editors of this volume have invited eight leading scientists from cosmology climate science social science chemical engineering and

neuroscience to reflect upon their modeling work and eight philosophers of science to provide a commentary *Philosophy of Science* Alexander Christian, David Hommen, Nina Retzlaff, Gerhard Schurz, 2018-03-26 This broad and insightful book presents current scholarship in important subfields of philosophy of science and addresses an interdisciplinary and multidisciplinary readership It groups carefully selected contributions into the four fields of I philosophy of physics II philosophy of life sciences III philosophy of social sciences and values in science and IV philosophy of mathematics and formal modeling Readers will discover research papers by Paul Hoyningen Huene Keizo Matsubara Kian Salimkhani Andrea Reichenberger Anne Sophie Meincke Javier Suarez Roger Deulofeu Ludger Jansen Peter Hucklenbroich Martin Carrier Elizaveta Kostrova Lara Huber Jens Harbecke Antonio Piccolomini d'Aragona and Axel Gelfert This collection fosters dialogue between philosophers of science working in different subfields and brings readers the finest and latest work across the breadth of the field illustrating that contemporary philosophy of science has successfully broadened its scope of reflection It will interest and inspire a wide audience of philosophers as well as scholars of the natural sciences social sciences and the humanities The volume shares selected contributions from the prestigious second triennial conference of the German Society for Philosophy of Science Gesellschaft für Wissenschaftsphilosophie GWP 2016 March 8 2016 March 11 2016 *The Explanatory Autonomy of the Biological Sciences* Wei Fang, 2021-12-23 This book argues for the explanatory autonomy of the biological sciences It does so by showing that scientific explanations in the biological sciences cannot be reduced to explanations in the fundamental sciences such as physics and chemistry and by demonstrating that biological explanations are advanced by models rather than laws of nature To maintain the explanatory autonomy of the biological sciences the author argues against explanatory reductionism and shows that explanation in the biological sciences can be achieved without reduction Then he demonstrates that the biological sciences do not have laws of nature Instead of laws he suggests that biological models usually do the explanatory work To understand how a biological model can explain phenomena in the world the author proposes an inferential account of model explanation The basic idea of this account is that for a model to be explanatory it must answer two kinds of questions counterfactual dependence questions that concern the model itself and hypothetical questions that concern the relationship between the model and its target system The reason a biological model can answer these two kinds of questions is due to the fact that a model is a structure and the holistic relationship between the model and its target warrants the hypothetical inference from the model to its target and thus helps to answer the second kind of question The Explanatory Autonomy of the Biological Sciences will be of interest to researchers and advanced students working in philosophy of science philosophy of biology and metaphysics **The Active Image** Sabine Ammon, Remei Capdevila-Werning, 2017-07-10 The active image refers to the operative nature of images thus capturing the vast array of actions that images perform This volume features essays that present a new approach to image theory It explores the many ways images become active in architecture and engineering design processes and how in the age of

computer based modeling images play an indispensable role The contributors examine different types of images be they pictures sketches renderings maps plans and photographs be they analog or digital planar or three dimensional ephemeral realistic or imaginary Their essays investigate how images serve as means of representing as tools for thinking and reasoning as ways of imagining the inexistent as means of communicating and conveying information and how images may also perform functions and have an agency in their own The essays discuss the role of images from the perspective of philosophy theory and history of architecture history of science media theory cognitive sciences design studies and visual studies offering a multidisciplinary approach to imagery and showing the various methodologies and interpretations in current research In addition they offer valuable insight to better understand how images operate and function in the arts and sciences in general

The World in the Model Mary S. Morgan, 2012-09-17 During the last two centuries the way economic science is done has changed radically it has become a social science based on mathematical models in place of words This book describes and analyses that change both historically and philosophically using a series of case studies to illuminate the nature and the implications of these changes It is not a technical book it is written for the intelligent person who wants to understand how economics works from the inside out This book will be of interest to economists and science studies scholars historians sociologists and philosophers of science But it also aims at a wider readership in the public intellectual sphere building on the current interest in all things economic and on the recent failure of the so called economic model which has shaped our beliefs and the world we live in

Science for a Fragile World Robert Northcott, 2025-06-13 Imagine two worlds In one laws causal relations and mechanisms are stable In the other they are fragile and unreliable Our actual world is a mixture of the two but for many of the things we care about most the relations that matter are fragile Fragility means we cannot rely on a theory or model that worked in one case still working in another so it requires us to re establish what works each time Science for a Fragile World offers a novel re examination of theory and empirical investigation opening up a new view and path for scientific expertise Chapters 1 and 2 offer an introduction and definition of the concept of fragility proposing that a relation is fragile if and only if it holds unpredictably enough Following from this Chapters 3 and 4 explore the importance of narrow scope empirical investigations and the methodological need for a Case Worker as opposed to a Stability Theorist approach Chapters 5 7 further reflect on the unique challenge posed by the ubiquity of fragility for scientific methodology and the philosophy of science In the latter chapters Northcott delves into the impact of fragility in key case studies economics big data and epidemiological modeling in the Covid 19 pandemic Cutting through the strictures of the classic scientific realist debate the volume concludes with a reevaluation of the role of expertise in a fragile world Warning against grand unified theories Northcott makes a thorough case for a science which emphasizes practical know how and informal knowledge as much as theory

Nancy Cartwright's Philosophy of Science Luc Bovens, Carl Hoefer, Stephan Hartmann, 2008-06-03 The only book that addresses Cartwright's undoubted influence on the study of the philosophy of

science This critical assessment contains contributions from Cartwright's champions and critics including leading scholars in the field such as Ronald N Giere and Paul Teller

The Experimental Side of Modeling Isabelle F. Peschard, Bas C. van Fraassen, 2018-10-02 An innovative multifaceted approach to scientific experiments as designed by and shaped through interaction with the modeling process The role of scientific modeling in mediation between theories and phenomena is a critical topic within the philosophy of science touching on issues from climate modeling to synthetic models in biology high energy particle physics and cognitive sciences Offering a radically new conception of the role of data in the scientific modeling process as well as a new awareness of the problematic aspects of data this cutting edge volume offers a multifaceted view on experiments as designed and shaped in interaction with the modeling process Contributors address such issues as the construction of models in conjunction with scientific experimentation the status of measurement and the function of experiment in the identification of relevant parameters how the phenomena under study are reconceived when accounted for by a model and the interplay between experimenting modeling and simulation when results do not mesh Highlighting the mediating role of models and the model dependence as well as theory dependence of data measurement this volume proposes a normative and conceptual innovation in scientific modeling that the phenomena to be investigated and modeled must not be precisely identified at the start but specified during the course of the interactions arising between experimental and modeling activities Contributors Nancy D Cartwright U of California San Diego Anthony Chemero U of Cincinnati Ronald N Giere U of Minnesota Jenann Ismael U of Arizona Tarja Knuuttila U of South Carolina Andrea Loettgers U of Bern Switzerland Deborah Mayo Virginia Tech Joseph Rouse Wesleyan U Paul Teller U of California Davis Michael Weisberg U of Pennsylvania Eric Winsberg U of South Florida

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 *Philosophical Perspectives in Quantum Chemistry* Olimpia Lombardi, Juan Camilo Martínez González, Sebastian Fortin, 2022-05-16 This book explores the philosophy and the foundations of quantum chemistry It features chapters written by experts in the field The contributions analyze quantum chemistry as a discipline in particular its relation with both chemistry and physics from the viewpoint of realism and reduction Coverage includes such topics as quantum chemistry as an in between discipline molecular structure and quantum mechanics quantum chemical models and atoms and molecules in quantum chemistry The interest of this book is twofold First the contributions aim to update and refresh the discussions regarding the foundations of quantum chemistry Second they seek to develop new philosophical perspectives that this discipline can suggest to philosophers of science From its origins quantum chemistry filled a problematic position in the disciplinary space On the one hand it is a branch of theoretical chemistry On the other hand it appeals essentially to theoretical tools coming from physics This peculiar position triggered conceptual questions about its own identity Inside this book readers will find updated discussions on the foundations and the philosophy of this complex discipline *Mechanistic Explanations in Physics and Beyond* Brigitte Falkenburg, Gregor Schiemann, 2019-08-28 This volume offers a broad philosophical discussion on mechanistic explanations Coverage ranges from historical approaches and general questions to physics and higher level sciences The contributors also consider the topics of complexity emergence and reduction Mechanistic explanations detail how certain properties of a whole stem from the causal activities of its parts This kind of explanation is in particular employed in explanatory models of the behavior of complex systems Often used in biology and neuroscience mechanistic explanation models have been often overlooked in the philosophy of physics The authors correct this surprising neglect They trace these models back to their origins in physics The papers present a comprehensive historical methodological and problem oriented investigation The contributors also investigate the conditions for using models of mechanistic explanations in physics The last papers make the bridge from physics to economics the theory of complex systems and computer science This book will appeal to graduate students and researchers with an interest in the philosophy of science scientific explanation complex systems models of explanation in physics higher level sciences and causal mechanisms in science [Modelling the Energy Transition](#) Robert Matthias Erdbeer, Veit Hagenmeyer, Klaus Stierstorfer, 2025-07-05 This open access book reconfigures Energy Transition as a global discourse from a multidisciplinary perspective Energy Transition is not only one of the most daring technological endeavours of the present it is also its new master narrative Focusing on modelling both as a cultural technique and as a strategy of innovation the chapters provided in this volume throw into relief the visions but also the blind spots of modelling the challenges of climate change Thus in a rare

encounter major voices from the Sciences and the Humanities from Energy Systems Design Mechanical Engineering Theory of Science Science and Technology Studies Literary Studies and the Arts have gathered here to overcome the cultural divide between the technological and the societal dimensions of this global task In doing so they offer a new form of model criticism pointing to the impacts of what may be termed the Energy Imaginary on the technosocial mindsets of our time **The Routledge Handbook of the Philosophy of Economics** Conrad Heilmann, Julian Reiss, 2021-11-29 The most fundamental questions of economics are often philosophical in nature and philosophers have since the very beginning of Western philosophy asked many questions that current observers would identify as economic The Routledge Handbook of Philosophy of Economics is an outstanding reference source for the key topics problems and debates at the intersection of philosophical and economic inquiry It captures this field of countless exciting interconnections affinities and opportunities for cross fertilization Comprising 35 chapters by a diverse team of contributors from all over the globe the Handbook is divided into eight sections I Rationality II Cooperation and Interaction III Methodology IV Values V Causality and Explanation VI Experimentation and Simulation VII Evidence VIII Policy The volume is essential reading for students and researchers in economics and philosophy who are interested in exploring the interconnections between the two disciplines It is also a valuable resource for those in related fields like political science sociology and the humanities **The Social Life of Climate Change Models** Kirsten Hastrup, Martin Skrydstrup, 2012-11-12 Drawing on a combination of perspectives from diverse fields this volume offers an anthropological study of climate change and the ways in which people attempt to predict its local implications showing how the processes of knowledge making among lay people and experts are not only comparable but also deeply entangled Through analysis of predictive practices in a diversity of regions affected by climate change including coastal India the Cook Islands Tibet and the High Arctic and various domains of scientific expertise and policy making such as ice core drilling flood risk modelling and coastal adaptation the book shows how all attempts at modelling nature's course are deeply social and how current research in climate contributes to a rethinking of nature as a multiplicity of modalities that impact social life

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