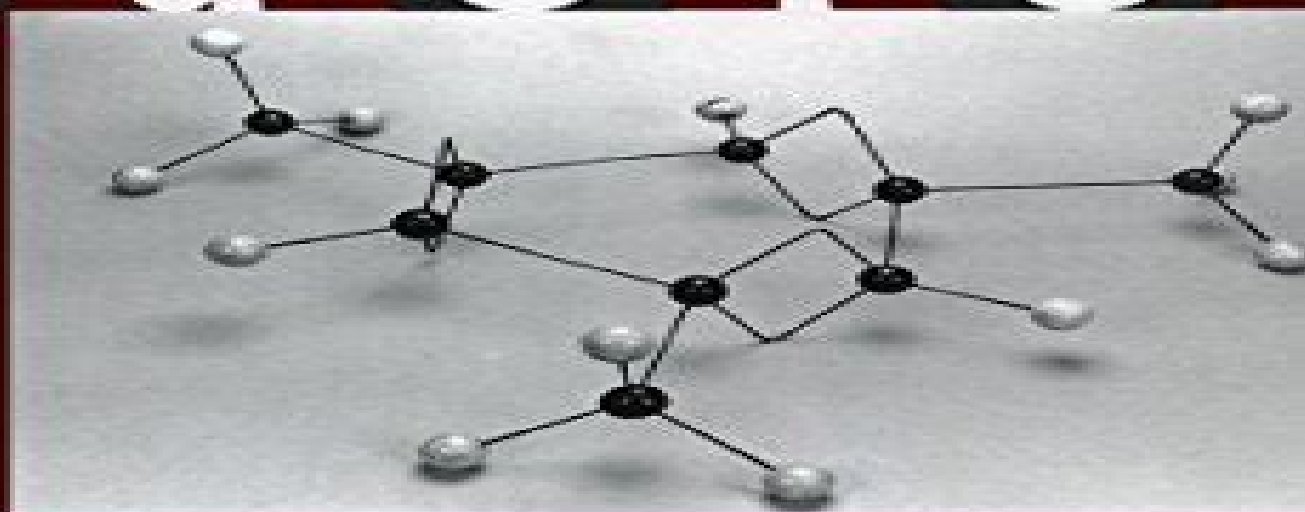


Models



THE THIRD
DIMENSION
OF SCIENCE

Edited by

Soraya de Chadarevian and Nick Hopwood



WRITING SCIENCE

Models The Third Dimension Of Science

**Henk W. de Regt, Sabina Leonelli, Kai
Eigner**



Models The Third Dimension Of Science:

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

Models Soraya de Chadarevian, Nick Hopwood, 2022 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

A Companion to the History of Science Bernard Lightman, 2019-11-12 The Wiley Blackwell Companion to the History of Science is a single volume companion that discusses the history of science as it is done today providing a survey of the debates and issues that dominate current scholarly discussion with contributions from leading international scholars Provides a single volume overview of current scholarship in the history of science edited by one of the leading figures in the field Features forty essays by leading international scholars providing an overview of the key debates and developments in the history of science Reflects the shift towards deeper historical contextualization within the field Helps communicate and integrate perspectives from the history of science with other areas of historical inquiry Includes discussion of non Western themes which are integrated throughout the chapters Divided into four sections based on key analytic categories that reflect new approaches in the field

Models as Make-Believe Adam Toon, 2012-10-17 Scientists often try to understand the world by building simplified and idealised models of it Adam Toon develops a new approach to scientific models by comparing them to the dolls and toy trucks of children s imaginative games and offers a unified framework to solve difficult

metaphysical problems and help to make sense of scientific practice *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 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

Model Ladislav Kesner, 2015-08-04 **Characterizing the Robustness of Science** Léna Soler, Emiliano Trizio, Thomas Nickles, William Wimsatt, 2012-03-23 Mature sciences have been long been characterized in terms of the successfulness reliability or trustworthiness of their theoretical experimental or technical accomplishments Today many philosophers of science talk of robustness often without specifying in a precise way the meaning of this term This lack of clarity is the cause of frequent misunderstandings since all these notions and that of robustness in particular are connected to fundamental issues which concern nothing less than the very nature of science and its specificity with respect to other human practices

the nature of rationality and of scientific progress and science's claim to be a truth conducive activity This book offers for the first time a comprehensive analysis of the problem of robustness and in general that of the reliability of science based on several detailed case studies and on philosophical essays inspired by the so called practical turn in philosophy of science

Visualizing the Body in Art, Anatomy, and Medicine since 1800 Andrew Graciano, 2019-02-06 This book expands the art historical perspective on art's connection to anatomy and medicine bringing together in one text several case studies from various methodological perspectives The contributors focus on the common visual and bodily nature of figural art anatomy and medicine around the central concept of modeling posing exemplifying and fabricating Topics covered include the role of anatomical study in artistic training the importance of art and visual literacy in anatomical medical training and in the dissemination via models of medical knowledge information and artistic representations of the medical body in the contexts of public health and propaganda

Springer Handbook of Model-Based Science Lorenzo Magnani, Tommaso Bertolotti, 2017-05-22 This handbook offers the first comprehensive reference guide to the interdisciplinary field of model based reasoning It highlights the role of models as mediators between theory and experimentation and as educational devices as well as their relevance in testing hypotheses and explanatory functions The Springer Handbook merges philosophical cognitive and epistemological perspectives on models with the more practical needs related to the application of this tool across various disciplines and practices The result is a unique reliable source of information that guides readers toward an understanding of different aspects of model based science such as the theoretical and cognitive nature of models as well as their practical and logical aspects The inferential role of models in hypothetical reasoning abduction and creativity once they are constructed adopted and manipulated for different scientific and technological purposes is also discussed Written by a group of internationally renowned experts in philosophy the history of science general epistemology mathematics cognitive and computer science physics and life sciences as well as engineering architecture and economics this Handbook uses numerous diagrams schemes and other visual representations to promote a better understanding of the concepts This also makes it highly accessible to an audience of scholars and students with different scientific backgrounds All in all the Springer Handbook of Model Based Science represents the definitive application oriented reference guide to the interdisciplinary field of model based reasoning

Three Dimensional Human Organotypic Models for Biomedical Research Fabio Bagnoli, Rino Rappuoli, 2021-05-20 This edited volume discusses the application of very diverse human organotypic models in major areas of biomedical research The authors lay a main focus on infectious diseases cancer allergies as well as drug vaccine discovery and toxicology studies Representing a valid alternative to laboratory animals these models are relevant for most areas of translational research As the contemporary research shows many human tissues can today be cultivated in vitro and used for several research objectives This book provides an unprecedented overview of recent developments in an exciting field of research methodology It is a reference guide for scientists in both academia and industry

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Model Organisms Rachel A. Ankeny, Sabina Leonelli, 2021-01-28 This Element presents a philosophical exploration of the concept of the model organism in contemporary biology Thinking about model organisms enables us to examine how living organisms have been brought into the laboratory and used to gain a better understanding of biology and to explore the research practices commitments and norms underlying this understanding We contend that model organisms are key components of a distinctive way of doing research We focus on what makes model organisms an important type of model and how the use of these models has shaped biological knowledge including how model organisms represent how they are used as tools for intervention and how the representational commitments linked to their use as models affect the research practices associated with them This title is available as Open Access on Cambridge Core

3D Research Challenges in Cultural Heritage II Sander Münster, Mieke Pfarr-Harfst, Piotr Kuroczyński, Marinos Ioannides, 2016-10-24 This book reflects a current state of the art and future perspectives of Digital Heritage focusing on not interpretative reconstruction and including as well as bridging practical and theoretical perspectives strategies and approaches Comprehensive key challenges are related to knowledge transfer and management as well as data handling within a interpretative digital reconstruction of Cultural Heritage including aspects of digital object creation sustainability accessibility documentation presentation preservation and more general scientific compatibility The three parts of the book provide an overview of a scope of usage scenarios a current state of infrastructures as digital libraries information repositories for an interpretative reconstruction of Cultural Heritage highlight strategies practices and principles currently used to ensure compatibility reusability and sustainability of data objects and related knowledge within a 3D reconstruction work process on a day to day work basis and show innovative concepts for the exchange publishing and management of 3D objects and for inherit knowledge about data workflows and semantic structures

Models of Science Dynamics Andrea Scharnhorst, Katy Börner, Peter van den Besselaar, 2012-01-24 Models of Science Dynamics aims to capture the structure and evolution of science the emerging arena in which scholars science and the communication of science become themselves the basic objects of research In order to capture the essence of phenomena as diverse as the structure of co authorship networks or the evolution of citation diffusion patterns such models can be represented by conceptual models based on historical and ethnographic observations mathematical descriptions of measurable phenomena or computational algorithms Despite its evident importance the mathematical modeling of science still lacks a unifying framework and a comprehensive study of the topic This volume fills this gap reviewing and describing major threads in the mathematical modeling of science dynamics for a wider academic and professional audience The model classes presented cover stochastic and statistical models system

dynamics approaches agent based simulations population dynamics models and complex network models The book comprises an introduction and a foundational chapter that defines and operationalizes terminology used in the study of science as well as a review chapter that discusses the history of mathematical approaches to modeling science from an algorithmic historiography perspective It concludes with a survey of remaining challenges for future science models and their relevance for science and science policy

How Economists Model the World Into Numbers Marcel Boumans, 2004-12-17 Economics is dominated by model building therefore a comprehension of how such models work is vital to understanding the discipline This book provides a critical analysis of the economist s favourite tool and as such will be an enlightening read for some and an intriguing one for others

Information Modelling and Knowledge Bases XXXV M. Tropmann-Frick, Hannu Jaakkola, Bernhard Thalheim, Yasushi Kiyoki, Naofumi Yoshida, 2024-02 The volume and complexity of information together with the number of abstraction levels and the size of data and knowledge bases grow continually Data originating from diverse sources involves a combination of data from traditional legacy sources and unstructured data requiring backwards modeling meanwhile information modeling and knowledge bases have become important contributors to 21st century academic and industrial research This book presents the proceedings of EJC 2023 the 33rd International Conference on Information Modeling and Knowledge Bases held from 5 to 9 June 2023 in Maribor Slovenia The aim of the EJC conferences is to bring together experts from different areas of computer science and from other disciplines that share the common interest of understanding and solving the problems of information modeling and knowledge bases and applying the results of research to practice The conference constitutes a research forum for the exchange of results and experiences by academics and practitioners dealing with information and knowledge bases The topics covered at EJC 2023 encompass a wide range of themes including conceptual modeling knowledge and information modeling and discovery linguistic modeling cross cultural communication and social computing environmental modeling and engineering and multimedia data modeling and systems In the spirit of adapting to the changes taking place in these areas of research the conference was also open to new topics related to its main themes Providing a current overview of progress in the field this book will be of interest to all those whose work involves the use of information modeling and knowledge bases

Museums as Cultures of Copies Brita Brenna, Hans Dam Christensen, Olav Hamran, 2018-12-07 Few institutions are warier of copies than museums Few fields of knowledge are more prone to denounce copies as fake than the heritage field Few discourses are as concerned with authenticity aura originals and provenance as those concerning exhibiting and collecting So why is it that these are institutions fields and discourses where copies proliferate and copying techniques have thrived for hundreds of years *Museums as Cultures of Copies* aims to make the copying practices of museums visible and to discuss from a range of interrelated perspectives precisely what function copies fulfil in the heritage field and in museums today With contributions from Europe and Canada the book interrogates the meaning of copies and presents copying as a fully integrated part of

museum work Including chapters on ethnographic mannequins digitalized photos death masks museum documentation and mechanical models contributors consider how copying as a cultural form changes according to time and place and how new forms of copying and copy technologies challenge and expand museum work today Arguing that copying is at the basis of museum practice and that new technologies and practices have been taken up and developed in museums since their inception the book presents both heritage work and copies in a new light Museums as Cultures of Copies should be of great interest to academics scholars and postgraduate students working in the fields of museum and heritage studies as well as visual studies cultural history and archaeology It should also be essential reading for museum practitioners *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

The Routledge Handbook of Philosophy of Imagination Amy Kind, 2016-01-22 Imagination occupies a central place in philosophy going back to Aristotle However following a period of relative neglect there has been an explosion of interest in imagination in the past two decades as philosophers examine the role of imagination in debates about the mind and cognition aesthetics and ethics as well as epistemology science and mathematics This outstanding Handbook contains over thirty specially commissioned chapters by leading philosophers organised into six clear sections examining the most important aspects of the philosophy of imagination including Imagination in historical context Aristotle Descartes Hume Kant Husserl and Sartre What is imagination The relation between imagination and mental imagery imagination contrasted with perception memory and dreaming Imagination in aesthetics imagination and our engagement with music art and fiction the problems of fictional emotions and imaginative resistance Imagination in philosophy of mind and cognitive science imagination and creativity the self action child development and animal cognition Imagination in ethics and political philosophy including the concept of moral imagination and empathy Imagination in epistemology and philosophy of science including learning thought experiments scientific modelling and mathematics The Routledge Handbook of Philosophy of Imagination is essential reading for students and researchers in philosophy of mind and psychology aesthetics and ethics It

will also be a valuable resource for those in related disciplines such as psychology and art Scientific Understanding Henk W. de Regt, Sabina Leonelli, Kai Eigner, 2014-08-09 To most scientists and to those interested in the sciences understanding is the ultimate aim of scientific endeavor In spite of this understanding and how it is achieved has received little attention in recent philosophy of science Scientific Understanding seeks to reverse this trend by providing original and in depth accounts of the concept of understanding and its essential role in the scientific process To this end the chapters in this volume explore and develop three key topics understanding and explanation understanding and models and understanding in scientific practice Earlier philosophers such as Carl Hempel dismissed understanding as subjective and pragmatic They believed that the essence of science was to be found in scientific theories and explanations In Scientific Understanding the contributors maintain that we must also consider the relation between explanations and the scientists who construct and use them They focus on understanding as the cognitive state that is a goal of explanation and on the understanding of theories and models as a means to this end The chapters in this book highlight the multifaceted nature of the process of scientific research The contributors examine current uses of theory models simulations and experiments to evaluate the degree to which these elements contribute to understanding Their analyses pay due attention to the roles of intelligibility tacit knowledge and feelings of understanding Furthermore they investigate how understanding is obtained within diverse scientific disciplines and examine how the acquisition of understanding depends on specific contexts the objects of study and the stated aims of research

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