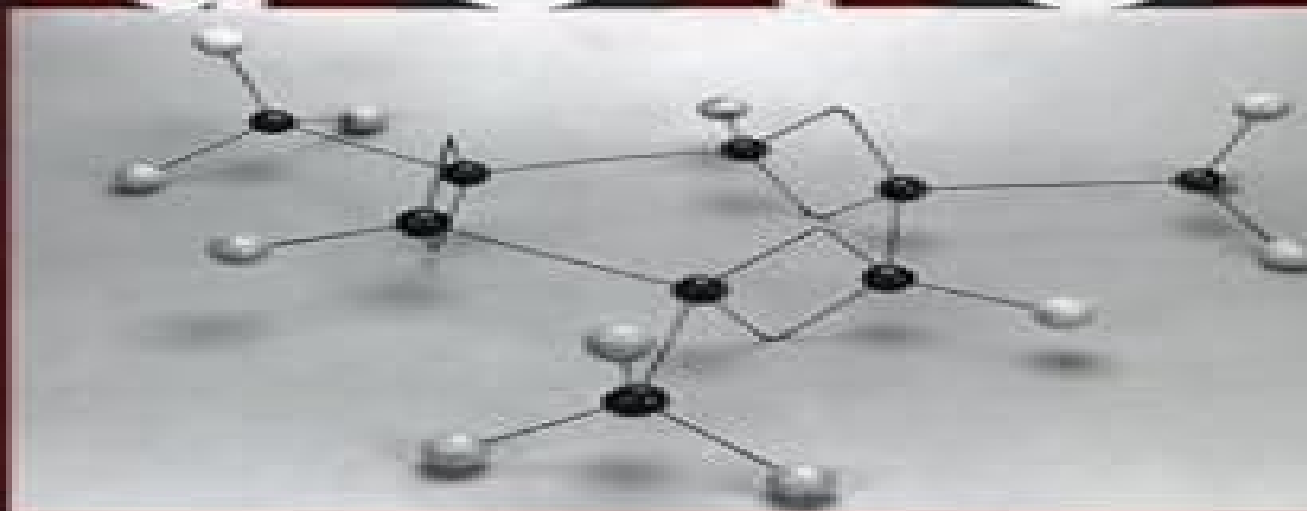


# Models



THE THIRD  
DIMENSION  
OF SCIENCE

Edited by

**Soraya de Chadarevian and Nick Hopwood**

WRITING SCIENCE

# Models The Third Dimension Of Science Writing Science

**Sander Münster, Fabrizio Ivan  
Apollonio, Ina Bluemel, Federico  
Fallavollita, Riccardo Foschi, Marc  
Grellert, Marinos Ioannides, Peter  
Heinrich Jahn, Richard Kurdiovsky, Piotr  
Kuroczyński, Jan-Eric Lutteroth, Heike  
Messemer, Georg Schelbert**

## **Models The Third Dimension Of Science Writing 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

Archives, Ancestors, Practices Nathan Schlanger, Jarl Nordbladh, 2008-06-01 In line with the resurgence of interest in the history of archaeology manifested over the past decade this volume aims to highlight state of the art research across several topics and areas and to stimulate new approaches and studies in the field With their shared historiographical commitment the authors leading scholars and emerging researchers draw from a wide range of case studies to address major themes such as historical sources and methods questions of archaeological practices and the practical aspects of knowledge production visualizing archaeology and the multiple roles of iconography and imagery and questions of identity at local national and international levels *Histories of Archaeology* Tim Murray, Christopher Evans, 2008-09-04 In recent years there has been an upsurge of interest in the history of the discipline of archaeology Local national and international histories of archaeology that deal with institutions concepts categories and the social and political contexts of archaeological practice have begun to influence the development of archaeological theory This volume contributes to these developments by reprinting 19 significant papers Spanning much of the last 200 years and global in coverage and outlook the papers provide a thorough

grounding in the historiography of archaeology and will enhance understanding of the origins and growth of its theory and practice A general introduction which is itself a contribution to historiography orients readers by outlining core themes and issues in the field

**Building Blocks** Jose Muñoz Alvis, 2020-05-07 Building blocks are practical materials for playing learning and working at kindergartens schools universities and companies How did building blocks which were primarily established as toys for children come to be practical materials used in professional and educational settings This study explores the historical implications of particular sets of building blocks in the interdisciplinary consolidation and transformation of techniques materials discourses and subjects By mapping the genealogy of building blocks from French gifts to their current systematization as interlocked blocks this study proposes that building blocks should be understood not exclusively as concrete objects but as the materiality of a combinatorial program which delineates a modular system characterized by a code of composition a context neutrality and a semantic component

Handbook of Digital 3D Reconstruction of Historical Architecture Sander Münster, Fabrizio Ivan Apollonio, Ina Bluemel, Federico Fallavollita, Riccardo Foschi, Marc Grellert, Marinos Ioannides, Peter Heinrich Jahn, Richard Kurdiovsky, Piotr Kuroczyński, Jan-Eric Lutteroth, Heike Messemer, Georg Schelbert, 2024-04-18 This open access book is a handbook for students experts and interested parties who want to learn more about digital 3D reconstruction of historical architecture The book provides answers to the core questions of the subject What is a digital 3D model or a digital 3D reconstruction How are they created and what are they used for Practical instructions condensed knowledge explanations of technical terms and references to example projects literature and further references provide information of varying density and thus enable an individual introduction to the subject The book combines extensive knowledge on the topic of digital 3D reconstruction of historical architecture and provides practical instructions for independent implementation Up to now there has been no cross disciplinary vocabulary for technical terms in this field so this publication makes a start The book is aimed at students experts in the field and the interested public and offers various possibilities for the different target groups to delve deeply into the subject The book was created within the research network Digital 3D Reconstruction as Tools for Research in Architectural History which was funded by the German Research Foundation DFG from 2018 to 2023 The authors combined their expertise in the fields of art and architectural history architecture university teaching and media informatics

**Science** John Michels (Journalist), 2004 A weekly record of scientific progress

**The Cambridge History of Science: Volume 6, The Modern Biological and Earth Sciences** David C. Lindberg, Peter J. Bowler, Ronald L. Numbers, Roy Porter, 2003 This book in the highly respected Cambridge History of Science series is devoted to the history of the life and earth sciences since 1800 It provides comprehensive and authoritative surveys of historical thinking on major developments in these areas of science on the social and cultural milieus in which the knowledge was generated and on the wider impact of the major theoretical and practical innovations The articles are written by acknowledged experts who provide concise accounts of the latest historical thinking coupled with

guides to the most important recent literature In addition to histories of traditional sciences the book covers the emergence of newer disciplines such as genetics biochemistry and geophysics The interaction of scientific techniques with their practical applications in areas such as medicine is a major focus of the book as is its coverage of controversial areas such as science and religion and environmentalism

**Women in the History of Science** Hannah Wills, Sadie Harrison, Erika Lynn Jones, Farrah Lawrence-Mackey, Rebecca Martin, 2023-03-06 Women in the History of Science brings together primary sources that highlight women's involvement in scientific knowledge production around the world Drawing on texts images and objects each primary source is accompanied by an explanatory text questions to prompt discussion and a bibliography to aid further research Arranged by time period covering 1200 BCE to the twenty first century and across 12 inclusive and far reaching themes this book is an invaluable companion to students and lecturers alike in exploring women's history in the fields of science technology mathematics medicine and culture While women are too often excluded from traditional narratives of the history of science this book centres on the voices and experiences of women across a range of domains of knowledge By questioning our understanding of what science is where it happens and who produces scientific knowledge this book is an aid to liberating the curriculum within schools and universities

**The World in the Model** Mary S. Morgan, 2012-09-17 This book describes the radical shift in the study of economic science where arguing with words was replaced by reasoning with mathematical models

**Materials of the Mind** James Poskett, 2019-05-10 This is not only the first global history of nineteenth century science but the first global history of phrenology Phrenology was the most popular mental science of the Victorian age From American senators to Indian social reformers this new mental science found supporters around the globe Materials of the Mind tells the story of how phrenology changed the world and how the world changed phrenology This is a story of skulls from the Arctic plaster casts from Haiti books from Bengal and letters from the Pacific Drawing on far flung museum and archival collections and addressing sources in six different languages Materials of the Mind is an impressively innovative account of science in the nineteenth century as part of global history It shows how the circulation of material culture underpinned the emergence of a new materialist philosophy of the mind while also demonstrating how a global approach to history can help us reassess issues such as race technology and politics today

Novel Science Adelene Buckland, 2013-04-12 Novel Science is the first in depth study of the shocking groundbreaking and sometimes beautiful writings of the gentlemen of the heroic age of geology and of the contribution these men made to the literary culture of their day For these men literature was an essential part of the practice of science itself as important to their efforts as mapmaking fieldwork and observation The reading and writing of imaginative literatures helped them to discover imagine debate and give shape and meaning to millions of years of previously undiscovered earth history Borrowing from the historical fictions of Walter Scott and the poetry of Lord Byron they invented geology as a science discovered many of the creatures we now call the dinosaurs and were the first to unravel and map the sequence and structure of stratified

rock As Adelene Buckland shows they did this by rejecting the grand narratives of older theories of the earth or of biblical cosmogony theirs would be a humble science faithfully recording minute details and leaving the big picture for future generations to paint Buckland also reveals how these scientists just as they had drawn inspiration from their literary predecessors gave Victorian realist novelists such as George Eliot Charles Kingsley and Charles Dickens a powerful language with which to create dark and disturbing ruptures in the too seductive sweep of story

**Being Modern** Robert Bud, Paul Greenhalgh, Frank James, Morag Shiach, 2018-10-10 In the early decades of the twentieth century engagement with science was commonly used as an emblem of modernity This phenomenon is now attracting increasing attention in different historical specialties *Being Modern* builds on this recent scholarly interest to explore engagement with science across culture from the end of the nineteenth century to approximately 1940 Addressing the breadth of cultural forms in Britain and the western world from the architecture of Le Corbusier to working class British science fiction *Being Modern* paints a rich picture Seventeen distinguished contributors from a range of fields including the cultural study of science and technology art and architecture English culture and literature examine the issues involved The book will be a valuable resource for students and a spur to scholars to further examination of culture as an interconnected web of which science is a critical part and to supersede such tired formulations as Science and culture

Rendering Life Molecular Natasha Myers, 2015-08-27 What are living bodies made of Protein modelers tell us that our cells are composed of millions of proteins intricately folded molecular structures on the scale of nanoparticles Proteins twist and wriggle as they carry out the activities that keep cells alive Figuring out how to make these unruly substances visible tangible and workable is a challenging task one that is not readily automated even by the fastest computers Natasha Myers explores what protein modelers must do to render three dimensional atomic resolution models of these lively materials *Rendering Life Molecular* shows that protein models are not just informed by scientific data model building entangles a modeler's entire sensorium and modelers must learn to feel their way through the data in order to interpret molecular forms Myers takes us into protein modeling laboratories and classrooms tracking how gesture affect imagination and intuition shape practices of objectivity Asking What is life becoming in modelers hands she tunes into the ways they animate molecules through their moving bodies and other media In the process she amplifies an otherwise muted liveliness inflecting mechanistic accounts of the stuff of life

**Imagining the Brain: Episodes in the History of Brain Research** Chiara Ambrosio, William Maclellan, 2018-12-01 Progress in Brain Research series highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Progress of Brain Research series Updated release includes the latest information on the *Imagining the Brain Episodes in the Visual History of Brain Research*

*Biological Relatives* Sarah Franklin, 2013-11-15 Sarah Franklin explores the history and future of in vitro fertilization IVF thirty five years and five

million babies after its initial success as a form of technologically assisted human reproduction

**Prototyping Cultures** Alberto Jimenez, 2018-12-07 Prototypes have acquired much prominence and visibility in recent times Software development is perhaps the case in point where the release of non stable versions of programmes beta versions has become commonplace as is famously the case in free and open source software Prototyping has also become an important currency of explanation and description in art technology contexts where the emphasis is on the productive and processual aspects of experimentation Medialabs hacklabs community and social art collectives dorkbots open collaborative websites or design thinking workshops are spaces and sites where prototyping and experimentation have taken hold as both modes of knowledge production and cultural and sociological styles of exchange and interaction Experimentation has also been at the centre of recent reassessments of the organisation of laboratory expert and more generally epistemic cultures in the sciences An interesting development is the shift in emphasis from the experimental as a knowledge site to the experimental as a social process This book brings some of the leading scholars in the fields of anthropology social studies of science and technology and critical design thinking in a theoretical and ethnographic dialogue to explore the affordances of the prototype as a figure of our contemporary This book was originally published as a special issue of the Journal of Cultural Economy

**Giving Bodies Back to Data** Silvia Casini, 2021-08-03 An examination of the bodily situated aspects of data visualization work looking at visualization practices around the development of MRI technology Our bodies are scanned probed imaged sampled and transformed into data by clinicians and technologists In this book Silvia Casini reveals the affective relations and materiality that turn data into image and in so doing gives bodies back to data Opening the black box of MRI technology Casini examines the bodily situated aspects of visualization practices around the development of this technology Reframing existing narratives of biomedical innovation she emphasizes the important but often overlooked roles played by aesthetics affectivity and craft practice in medical visualization Combining history theory laboratory ethnography archival research and collaborative art science Casini retrieves the multiple presences and agencies of bodies in data visualization mapping the traces of scientists body work and embodied imagination She presents an in depth ethnographic study of MRI development at the University of Aberdeen s biomedical physics laboratory from the construction of the first whole body scanner for clinical purposes through the evolution of the FFC MRI Going beyond her original focus on MRI she analyzes a selection of neuroscience or biomedicine inspired interventions by artists in media ranging from sculpture to virtual reality Finally she presents a methodology for designing and carrying out small scale art science projects describing a collaboration that she herself arranged highlighting the relational and aesthetic laden character of data that are the product of craftsmanship and affective labor at the laboratory bench

***Rhetorical Machines*** John Jones, Lavinia Hirsu, 2019-07-02 A landmark volume that explores the interconnected nature of technologies and rhetorical practice *Rhetorical Machines* addresses new approaches to studying computational processes within the growing field of digital rhetoric While computational code is often seen as value neutral

and mechanical this volume explores the underlying and often unexamined modes of persuasion this code engages In so doing it argues that computation is in fact rife with the values of those who create it and thus has powerful ethical and moral implications From Socrates s critique of writing in Plato s Phaedrus to emerging new media and internet culture the scholars assembled here provide insight into how computation and rhetoric work together to produce social and cultural effects This multidisciplinary volume features contributions from scholar practitioners across the fields of rhetoric computer science and writing studies It is divided into four main sections Emergent Machines examines how technologies and algorithms are framed and entangled in rhetorical processes Operational Codes explores how computational processes are used to achieve rhetorical ends Ethical Decisions and Moral Protocols considers the ethical implications involved in designing software and that software s impact on computational culture and the final section includes two scholars responses to the preceding chapters Three of the sections are prefaced by brief conversations with chatbots autonomous computational agents addressing some of the primary questions raised in each section At the heart of these essays is a call for emerging and established scholars in a vast array of fields to reach interdisciplinary understandings of human machine interactions This innovative work will be valuable to scholars and students in a variety of disciplines including but not limited to rhetoric computer science writing studies and the digital humanities

**Handbook of Research on Writing Instruction Practices for Equitable and Effective Teaching** Hodges, Tracey S., 2022-05-27 Writing is a critical component for teaching children about advocacy and empowering student voice as well as an essential tool for learning in many disciplines Yet writing instruction in schools often focuses on traditional methods such as the composition of five paragraph essays or the adherence to proper grammatical conventions While these are two components of writing instruction and preparation in education they only provide a small glimpse into the depth and breadth of writing As such writing instruction is increasingly complex and requires multiple perspectives and levels of skill among teachers The Handbook of Research on Writing Instruction Practices for Equitable and Effective Teaching serves as a comprehensive reference of issues related to writing instruction and leading research about perspectives methods and approaches for equitable and effective writing instruction It includes practices beyond K 12 including best writing practices at the college level as well as the development of future teachers Providing unique coverage on culturally relevant writing socio and racio linguistic justice and urgent writing pedagogies this major reference work is an indispensable resource for administrators and educators of both K 12 and higher education pre service teachers teacher educators libraries government officials researchers and academicians



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