

# EARLY MODERN HISTORY AND THE SOCIAL SCIENCES



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# The Power Of Images In Early Modern Sciences

**Klaus Hentschel**



## **The Power Of Images In Early Modern Sciences:**

**The Power of Images in Early Modern Science** Wolfgang Lefèvre, Jürgen Renn, Urs Schoepflin, 2012-12-06 Wolfgang Lefèvre Jürgen Renn and Urs Schoepflin General The origin of this volume is a workshop held has a deeper more complex structure which in 1997 in Berlin as part of a series of work must be assumed if its analysis is only based shops organized in the framework of the on text In fact the analysis of the function of Network on Science and the Visual Images images in the early modern period shows that 1500 1800 funded by the European Science they mediated not only between science and Foundation and initiated by William Shea its cultural context but also between practi Meanwhile a selection of contributions was cal knowledge and its theoretical reflection thoroughly revised and prepared for publica in scientific theories tion together with additionally invited papers The analysis of images thus constitutes an for this book The result is a volume which important branch of the history of science we hope corresponds to the original inten that on the one hand is conceived of as part tion of the Network to contribute to a histori of a more general history of culture and on cal reconstruction of the role of images in the the other hand as a historical epistemology of history of science still neglected because of knowledge This book is not a systematic and the traditional focus of the history of science comprehensive account of scientific images on texts corresponding to a concentration on and the early modern period **The Power of Images in Early Modern Science**

**Printed Images in Early Modern Britain** Michael Cyril William Hunter, 2010 Printed images were widely disseminated in early modern Britain yet by comparison with texts they have been relatively neglected even by historians to whom they ought to be of the greatest interest This volume helps remedy this state of affairs Complementing the online digital library of British printed images to 1700 it offers a series of essays which demonstrate the many and varied ways in which images can better integrated into the history of the period Including contributions from many leading exponents of the cultural history of early modern Britain it repeatedly underlines how every facet of British culture in the period can be better understood with an appreciation of printed images **Encyclopedia of**

**Early Modern Philosophy and the Sciences** Dana Jalobeanu, Charles T. Wolfe, 2022-08-27 This Encyclopedia offers a fresh integrated and creative perspective on the formation and foundations of philosophy and science in European modernity Combining careful contextual reconstruction with arguments from traditional philosophy the book examines methodological dimensions breaks down traditional oppositions such as rationalism vs empiricism calls attention to gender issues to insiders and outsiders minor figures in philosophy and underground movements among many other topics In addition and in line with important recent transformations in the fields of history of science and early modern philosophy the volume recognizes the specificity and significance of early modern science and discusses important developments including issues of historiography such as historical epistemology the interplay between the material culture and modes of knowledge expert knowledge and craft knowledge This book stands at the crossroads of different disciplines and combines their approaches particularly the

history of science the history of philosophy contemporary philosophy of science and intellectual and cultural history It brings together over 100 philosophers historians of science historians of mathematics and medicine offering a comprehensive view of early modern philosophy and the sciences It combines and discusses recent results from two very active fields early modern philosophy and the history of early modern science Editorial Board EDITORS IN CHIEF Dana Jalobeanu University of Bucharest Romania Charles T Wolfe Ghent University Belgium ASSOCIATE EDITORS Delphine Bellis University Nijmegen The Netherlands Zvi Biener University of Cincinnati OH USA Angus Gowland University College London UK Ruth Hagengruber University of Paderborn Germany Hiro Hirai Radboud University Nijmegen The Netherlands Martin Lenz University of Groningen The Netherlands Gideon Manning CalTech Pasadena CA USA Silvia Manzo University of La Plata Argentina Enrico Pasini University of Turin Italy Cesare Pastorino TU Berlin Germany Lucian Petrescu Universit Libre de Bruxelles Belgium Justin E H Smith University de Paris Diderot France Marius Stan Boston College Chestnut Hill MA USA Koen Vermeir CNRS SPHERE Universit de Paris France Kirsten Walsh University of Calgary Alberta Canada

*The Power of Images in Early Modern Science* Wolfgang Lefèvre, Jürgen Renn, Urs Schoepflin, 2011-10-09 The book is dedicated to the role of visual representations in the history of early modern science It brings together historical case studies from various fields and discusses epistemological questions such as the role of images as mediatory instances between practical and theoretical knowledge the interaction between images and texts and the potential of images to synthesize fragments of knowledge to a global picture

Gardens, Knowledge and the Sciences in the Early Modern Period Hubertus Fischer, Volker R. Remmert, Joachim Wolschke-Bulmahn, 2016-06-03 This volume focuses on the outstanding contributions made by botany and the mathematical sciences to the genesis and development of early modern garden art and garden culture The many facets of the mathematical sciences and botany point to the increasingly scientific approach that was being adopted in and applied to garden art and garden culture in the early modern period This development was deeply embedded in the philosophical religious political cultural and social contexts running parallel to the beginning of processes of scientization so characteristic for modern European history This volume strikingly shows how these various developments are intertwined in gardens for various purposes

*The Golden Age of Data Visualization* Kim Marriott, 2024-09-04 We are living in the Golden Age of Data Visualization The COVID 19 pandemic has demonstrated how we increasingly use data visualizations to make sense of the world Business analysts fill their presentations with charts journalists use infographics to engage their readers we rely on the dials and gauges on our household appliances and we use mapping apps on our smartphones to find our way This book explains how and why this has happened It details the evolution of information graphics the kinds of graphics at the core of data visualization maps diagrams charts scientific and medical images from prehistory to the present day It explains how the cultural context production and presentation technologies and data availability have shaped the history of data visualization It considers the perceptual and cognitive reasons why data visualization is so effective and explores the

little known world of tactile graphics raised line drawings used by people who are blind The book also investigates the way visualization has shaped our modern world The European Renaissance and the Scientific Revolution relied on maps and technical and scientific drawings and graphics influence how we think about abstract concepts like time and social connection This book is written for data visualization researchers and professionals and anyone interested in data visualization and the way we use graphics to understand and think about the world *Baroque Science* Ofer Gal,Raz Chen-Morris,2014-07-21 Presents a perspective on the study of early modern science This title examines science in the context of the baroque analyzes the tensions paradoxes and compromises that shaped the New Science of the seventeenth century and enabled its spectacular success Picturing Aura Jeremy Stolow,2025-04-01 The remarkable history of efforts to visualize the human aura and the lives of its pictures in religion science art and culture Picturing Aura is the first book of its kind an extended historical anthropological and philosophical study of modern efforts to visualize the hidden radiant force encompassing the living body known as our aura This rich interdisciplinary study by Jeremy Stolow chronicles the rise and global spread of modern instruments and techniques of picturing aura from the late nineteenth century to the present day exploring how its images are put to work in the diverse realms of psychical research esotericism art photography popular culture and the New Age alternative medical and spiritual marketplace At their core pictures of auras are boundary objects that operate simultaneously in multiple conceptual and practical realms serving varying goals of making art healing bodies and exploring the cosmos Drawing on extensive archival as well as field research Stolow reconstructs a global history of this boundary crossing enterprise through its evolving media technologies markets and cultural arenas It is a story shaped through exchanges among professionals and amateurs scientists and occultists countercultural artists and entrepreneurs metropolitans and hinterland figures With more than 60 full color illustrations Picturing Aura brings to light a remarkable entangled history of picture making that challenges settled assumptions about religion art and science **The Science of Describing** Brian W. Ogilvie,2008-09-15 Out of the diverse traditions of medical humanism classical philology and natural philosophy Renaissance naturalists created a new science devoted to discovering and describing plants and animals Drawing on published natural histories manuscript correspondence garden plans travelogues watercolors and drawings The Science of Describing reconstructs the evolution of this discipline of description through four generations of naturalists In the late fifteenth and early sixteenth centuries naturalists focused on understanding ancient and medieval descriptions of the natural world but by the mid sixteenth century naturalists turned toward distinguishing and cataloguing new plant and animal species To do so they developed new techniques of observing and recording created botanical gardens and herbaria and exchanged correspondence and specimens within an international community By the early seventeenth century naturalists began the daunting task of sorting through the wealth of information they had accumulated putting a new emphasis on taxonomy and classification Illustrated with woodcuts engravings and photographs The Science of Describing is the first

broad interpretation of Renaissance natural history in more than a generation and will appeal widely to an interdisciplinary audience     *The Cambridge History of Philosophy of the Scientific Revolution* David Marshall Miller, Dana Jalobeanu, 2022-01-06 A collection of cutting edge scholarship on the close interaction of philosophy with science at the birth of the modern age     **The Educated Eye: Visual Culture and Pedagogy in the Life Sciences** Michael R. Dietrich, 2012 A study of visual culture in the teaching of the life sciences The creation and processing of visual representations in the life sciences is a critical but often overlooked aspect of scientific pedagogy The Educated Eye follows the nineteenth century embrace of the visible in new spectatoria or demonstration halls through the twentieth century cinematic explorations of microscopic realms and simulations of surgery in virtual reality With essays on Doc Edgerton's stroboscopic techniques that froze time and Eames's visualization of scale in Powers of Ten among others contributors ask how we are taught to see the unseen Project Muse     **The Mage's Images: Heinrich Khunrath in His Oratory and Laboratory, Volume 1** Peter J. Forshaw, 2024-11-25 This is the 1st volume in a 4 volume work entitled The Mage's Images The work provides the first in depth examination of the life and works of Heinrich Khunrath 1560-1605 one of the great Hermetic philosophers whose Amphitheatre of Eternal Wisdom 1595-1609 has been described as one of the most important books in the whole literature of theosophical alchemy and the occult sciences Khunrath is best known for his novel combination of scripture and picture in the complex engravings in his Amphitheatre In this richly illustrated monograph Forshaw analyses occult symbolism with previously unpublished material offering insight into Khunrath's insistence on the necessary combination of alchemy magic and cabala in Oratory and Laboratory     *Science Communication* Annette Leßmöllmann, Marcelo Dascal, Thomas Gloning, 2019-12-16 The volume gives a multi perspective overview of scholarly and science communication exploring its diverse functions modalities interactional structures and dynamics in a rapidly changing world In addition it provides a guide to current research approaches and traditions on communication in many disciplines including the humanities technology social and natural sciences and on forms of communication with a wide range of audiences     **Philosophy as Descartes Found It** Brian Copenhaver, 2024-11-30 What was philosophy as Descartes found it around 1620 What was philosophy like before Descartes reformed it after 1637 What features of philosophy did he want to fix and what tools did he use To answer such questions how should philosophers do their work today One answer is surprising that Descartes wrote picture books for example Another is challenging that philosophers in the present would be better students of their discipline's past if they spent less time on past philosophy as they commonly understand it The change would be transformative But big changes have happened in philosophy's past for non philosophical reasons that need attention from philosophers today when oblivion has impeded their study of such changes Attending to understudied causes of philosophical effects will show philosophers how to repair the damage that oblivion has done to their work Mending stories about philosophy begins in this book with Descartes and his predecessors mostly the predecessors on meditation and method Brian Copenhaver examines these

familiar topics from a neglected point of view before introducing a different and unfamiliar Descartes the author of the Discourse and Meditations as a writer of picture books Three chapters about these topics meditation method and picturing are the practice justified by two theoretical chapters one about how philosophy changes the other about the oblivion that cancels memories of change

**The Rhinoceros and the Megatherium** Juan Pimentel, 2017-01-09 How did Europeans three centuries apart respond to two mysterious beasts a living rhinoceros previously known only from ancient texts and a nameless monster's massive bones Juan Pimentel shows that their reactions reflect deep cultural changes but also the enduring power of image and imagination to shape our understanding of the natural world

**Skepticism's Pictures** Melissa Lo, 2023-05-26 In seventeenth century northern Europe as the Aristotelian foundations of scientia were rocked by observation experiment confessional strife and political pressure natural philosophers came to rely on the printed image to fortify their epistemologies and none more so than Ren Descartes In Skepticism's Pictures historian of science Melissa Lo chronicles the visual idioms that made sustained revised and resisted Descartes's new philosophy Drawing on moon maps political cartoons student notebooks treatises on practical mathematics and other sources Lo argues that Descartes transformed natural philosophy with the introduction of a new graphic language that inspired a wide range of pictorial responses shaped by religious affiliation political commitment and cultural convention She begins by historicizing the graphic vocabularies of Descartes's Essais and Principia philosophiae and goes on to analyze the religious and civic volatility of Descartes's thought which compelled defenders such as Jacques Rohault and Wolferd Senguerd to reconfigure his pictures according to their local visual cultures and stimulated enemies such as Gabriel Daniel to unravel Descartes's visual logic with devastating irony In the epilogue Lo explains why nineteenth century French philosophers divorced Descartes's thought from his pictures creating a modern image of reason and a version of philosophy absent visuality Engaging and accessible Skepticism's Pictures presents an exciting new approach to Descartes and the visual reception of seventeenth century physics It will appeal to historians of early modern European science philosophy art and culture and to art historians interested in histories that give images their argumentative power

Assembling the Tropics Hugh Cagle, 2018-09-06 This book charts the convergence of science culture and politics across Portugal's empire showing how a global geographical concept was born In accessible narrative prose this book explores the unexpected forms that science took in the early modern world It highlights little known linkages between Asia and the Atlantic world

Visual Cultures in Science and Technology Klaus Hentschel, 2014-10-30 This book offers a broad comparative survey of a booming field within the history of science the history generation use and function of images in scientific practice It explores every aspect of visuality in science arguing for the concept of visual domains What makes a good scientific image What cultural baggage is essential to it Is science indeed defined by its pictures This book aims to provide a synthesis of the history generation use and transfer of images in scientific practice It delves into the rich reservoir of case studies on visual representations in scientific and

technological practice that have accumulated over the past couple of decades by historians sociologists and philosophers of science The main aim is thus located on the meta level It adopts an integrative view of recurrently noted general features of visual cultures in science and technology something hitherto unachieved and believed by many to be a mission impossible By systematic comparison of numerous case studies the purview broadens away from myopic microanalysis in search of overriding patterns The many different disciplines and research areas involved encompass mathematics technology natural history medicine the geosciences astronomy chemistry and physics The chosen examples span the period from the Renaissance to the late 20th century The broad range of visual representations in scientific practice is treated as well as schooling in pattern recognition design and implementation of visual devices and a narrowing in on the special role of illustrators and image specialists

Food and Knowledge in Renaissance Italy Deborah L Krohn, 2016-04-15 Though Bartolomeo Scappi's Opera 1570 the first illustrated cookbook is well known to historians of food up to now there has been no study of its illustrations unique in printed books through the early seventeenth century In Food and Knowledge in Renaissance Italy Krohn both treats the illustrations in Scappi's cookbook as visual evidence for a lost material reality and through the illustrations including several newly discovered hand colored examples connects Scappi's Opera with other types of late Renaissance illustrated books What emerges from both of these approaches is a new way of thinking about the place of cookbooks in the history of knowledge Krohn argues that with the increasing professionalization of many skills and trades Scappi was at the vanguard of a new way of looking not just at the kitchen as workshop or laboratory but at the ways in which artisanal knowledge was visualized and disseminated by a range of craftsmen from engineers to architects The recipes in Scappi's Opera belong on the one hand to a genre of cookery books household manuals and courtesy books that was well established by the middle of the sixteenth century but the illustrations suggest connections to an entirely different and emergent world of knowledge It is through study of the illustrations that these connections are discerned explained and interpreted As one of the most important cookbooks for early modern Europe the time is ripe for a focused study of Scappi's Opera in the various contexts in which Krohn frames it book history antiquarianism and visual studies



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