

Jan Golinski

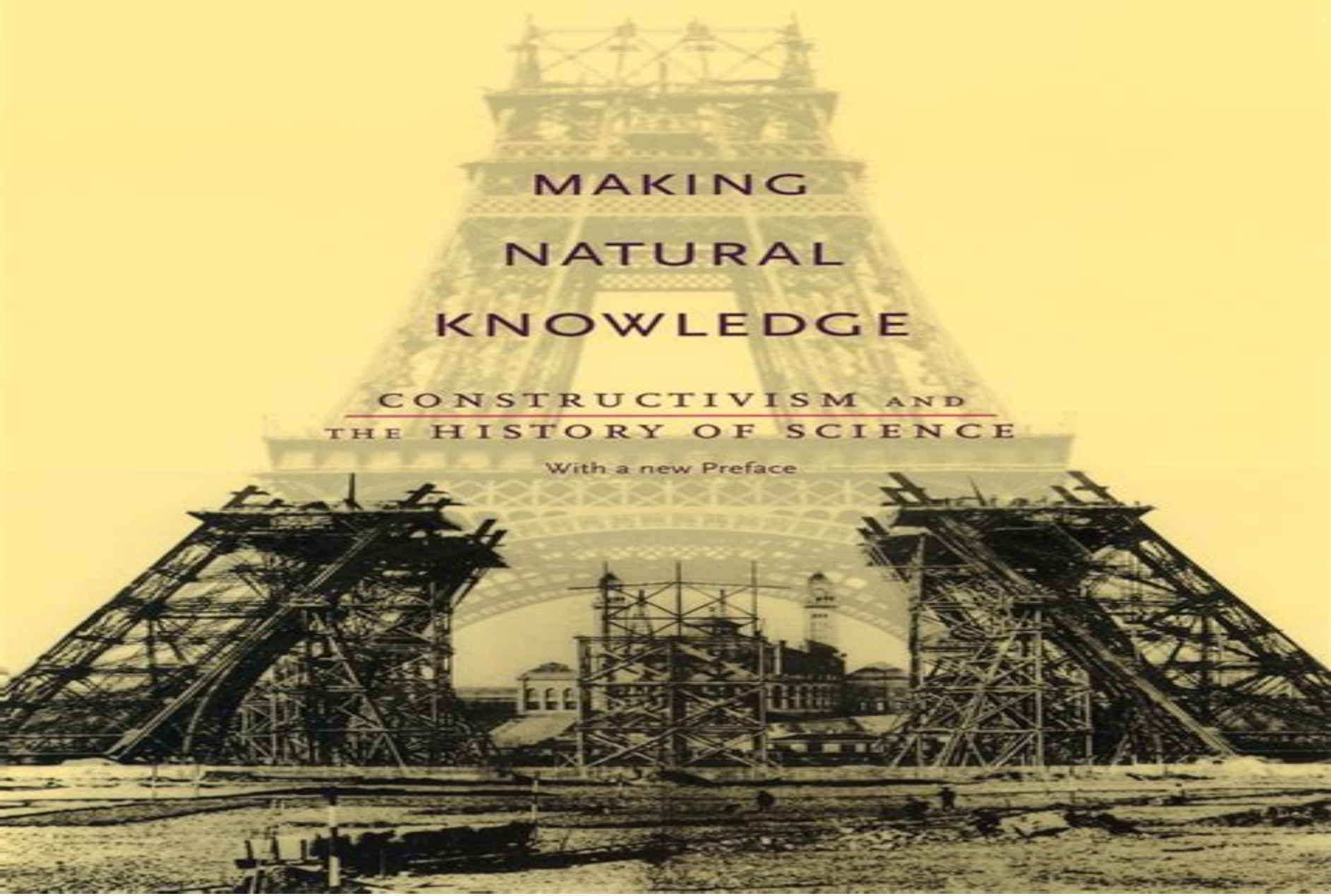
# MAKING NATURAL KNOWLEDGE

CONSTRUCTIVISM AND  

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THE HISTORY OF SCIENCE

With a new Preface



# Making Natural Knowledge Constructivism And The History Of Science

**Kalle Kananoja**



## **Making Natural Knowledge Constructivism And The History Of Science:**

**Making Natural Knowledge** Jan Golinski, 2008-07-22 Arguably the best available introduction to constructivism a research paradigm that has dominated the history of science for the past forty years Making Natural Knowledge reflects on the importance of this theory tells the history of its rise to prominence and traces its most important tensions Viewing scientific knowledge as a product of human culture Jan Golinski challenges the traditional trajectory of the history of science as steady and autonomous progress In exploring topics such as the social identity of the scientist the significance of places where science is practiced and the roles played by language instruments and images Making Natural Knowledge sheds new light on the relations between science and other cultural domains A standard introduction to historically minded scholars interested in the constructivist programme In fact it has been called the constructivist s bible in many a conference corridor Matthew Eddy British Journal for the History of Science

**Making Natural Knowledge** Jan Golinski, 1998-05-13 In Making Natural Knowledge Constructivism and the History of Science Jan Golinski reviews recent writing on the history of science and shows how it has been dramatically reshaped by a new understanding of science itself In the last few years scientific knowledge has come to be seen as a product of human culture an approach that has challenged the tradition of the history of science as a story of steady and autonomous progress New topics have emerged in historical research including the identity of the scientist the importance of the laboratory the role of language and instruments and the connections with other realms of culture and society Golinski has written a sympathetic but critical survey of this exciting field of research at a level that can be appreciated by students or anyone else who wants an introduction to contemporary thinking in the development of the sciences

**Making Natural Knowledge** Jan Golinski, 1998-05-13 This book reviews recent writing on the history of science and shows how it has been dramatically reshaped by a new understanding of science itself In the last few years scientific knowledge has come to be seen as a product of human culture This new approach has challenged the tradition of the history of science as a story of steady and autonomous progress

*Making natural knowledge* ,2005

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**Ping jieJan Golinski, Making natural knowledge: constructivism**

**and the history of science** ,2001      *Mathematical Practitioners and the Transformation of Natural Knowledge in Early Modern Europe* Lesley B. Cormack,Steven A. Walton,John A. Schuster,2017-03-15 This book argues that we can only understand transformations of nature studies in the Scientific Revolution if we take seriously the interaction between practitioners those who know by doing and scholars those who know by thinking These are not in opposition however Theory and practice are end points on a continuum with some participants interested only in the practical others only in the theoretical and most in the murky intellectual and material world in between It is this borderland where influence appropriation and collaboration have the potential to lead to new methods new subjects of enquiry and new social structures of natural philosophy and science The case for connection between theory and practice can be most persuasively drawn in the area of mathematics which is the focus of this book Practical mathematics was a growing field in early modern Europe and these essays are organised into three parts which contribute to the debate about the role of mathematical practice in the Scientific Revolution First they demonstrate the variability of the identity of practical mathematicians and of the practices involved in their activities in early modern Europe Second readers are invited to consider what practical mathematics looked like and that although practical mathematical knowledge was transmitted and circulated in a wide variety of ways participants were able to recognize them all as practical mathematics Third the authors show how differences and nuances in practical mathematics typically depended on the different contexts in which it was practiced social cultural political and economic particularities matter Historians of science especially those interested in the Scientific Revolution period and the history of mathematics will find this book and its ground breaking approach of particular interest      **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      **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      *Nationalizing Science* Alan J. Roche,2000-11-08 After looking at

the early careers of Wurtz's two mentors Liebig and Jean Baptiste Dumas. Rocke describes Wurtz's life and career in the politically complex period leading up to 1853. He then discusses the turning point in Wurtz's intellectual life: his conversion to the reformed chemistry of Laurent Gerhardt and Williamson and his efforts to persuade his colleagues of the advantages of the new system. In 1869 Adolphe Wurtz (1817-1884) called chemistry a French science. In fact, however, Wurtz was the most internationalist of French chemists. Born in Strasbourg and educated partly in the laboratory of the great Justus Liebig, he spent his career in Paris where he devoted himself to introducing German ideas into French scientific circles. His life therefore provides an excellent vehicle for considering the divergent trajectories of French and German chemistry and by extension French and German science during this crucial period. After looking at the early careers of Wurtz's two mentors Liebig and Jean Baptiste Dumas, Rocke describes Wurtz's life and career in the politically complex period leading up to 1853. He then discusses the turning point in Wurtz's intellectual life: his conversion to the reformed chemistry of Laurent Gerhardt and Williamson and his efforts, social and political as well as scientific, to persuade his colleagues of the advantages of the new system. He looks at political patronage or the lack thereof and at the insufficient material support from the French government during the middle decades of the century. From there, Rocke goes on to examine the rivalry between Wurtz and Marcellin Berthelot, the debate over atoms versus equivalents and the reasons for Wurtz's failure to win acceptance for his ideas. The story offers insights into the changing status of science in this period and helps to explain the eventual course of both French and German chemistry.

**History, Narrative, and Testimony in Amitav Ghosh's Fiction** Chitra

Sankaran, 2012-03-12 This is the first collection of international scholarship on the fiction of Amitav Ghosh. Ghosh's work is read by a wide audience and is well regarded by general readers, critics, and scholars throughout the world. Born in India, Ghosh has lived in India, the United Kingdom, and the United States. His work spans genres from contemporary realism to historical fiction to science fiction but has consistently dealt with the dislocations, violence, and meetings of peoples and cultures engendered by colonialism. The essays in this volume analyze Ghosh's novels in ways that yield new insights into concepts central to postcolonial and transnational studies, making important intertextual connections and foregrounding links to prevailing theoretical and speculative scholarship. The work's introduction argues that irony is central to Ghosh's vision and discusses the importance of the concepts of testimony and history to Ghosh's narratives. An invaluable interview with Amitav Ghosh discusses individual works and the author's overall philosophy.

**Pursuing the Unity of Science** Harmke

Kamminga, Geert Somsen, 2016-05-20 From 1918 to the late 1940s a host of influential scientists and intellectuals in Europe and North America were engaged in a number of far-reaching unity of science projects. In this period of deep social and political divisions, scientists collaborated to unify sciences across disciplinary boundaries and to set up the international scientific community as a model for global political cooperation. They strove to align scientific and social objectives through rational planning and to promote unified science as the driving force of human civilization and progress. This volume explores

the unity of science movement providing a synthetic view of its pursuits and placing it in its historical context as a scientific and political force Through a coherent set of original case studies looking at the significance of various projects and strategies of unification the book highlights the great variety of manifestations of this endeavour These range from unifying nuclear physics to the evolutionary synthesis and from the democratization of scientific planning to the utopianism of H G Wells s world state At the same time the collection brings out the substantive links between these different pursuits especially in the form of interconnected networks of unification and the alignment of objectives among them Notably it shows that opposition to fascism using the instrument of unified science became the most urgent common goal in the 1930s and 1940s In addressing these issues the book makes visible important historical developments showing how scientists participated in and actively helped to create an interwar ideology of unification and bringing to light the cultural and political significance of this enterprise

Error and Uncertainty in Scientific Practice Marcel Boumans, Giora Hon, Arthur Petersen, 2015-10-06 Assessment of error and uncertainty is a vital component of both natural and social science This edited volume presents case studies of research practices across a wide spectrum of scientific fields It compares methodologies and presents the ingredients needed for an overarching framework applicable to all

*Healing Knowledge in Atlantic Africa* Kalle Kananoja, 2021-02-04 Kananoja demonstrates how medical interaction in early modern Atlantic Africa was characterised by continuous knowledge exchange between Africans and Europeans

Controversy and Confrontation Frans H. van Eemeren, Frans Hendrik Eemeren, Bart Garssen, 2008 The essays that are collected in Controversy and Confrontation provide a closer insight into the relationship between controversy and confrontation that deepens our understanding of the functioning of argumentative discourse in managing differences of opinion Their authors stem from two backgrounds First the controversy scholars Dascal Marras Euli Regner Ferreira and Lessl discuss historical controversies in science both from a theoretical and an empirical perspective Saim concentrates on a historical controversy Fritz provides a historical perspective on controversies by analyzing communication principles Second the argumentation scholars Johnson van Laar van Eemeren Garssen and Meuffels address theoretical or empirical aspects of argumentative confrontation Aakhus and Vasilyeva examine argumentative discourse from the perspective of conversation analysis Jackson analyzes argumentative confrontation in a recent debate between scientists and politicians Last but not least two contributors Kutrov tz and Zeml n make an attempt to bridge the study of historical controversy and the study of argumentation

*Perspectives on Twentieth-century Pharmaceuticals* Viviane Quirke, Judy Slinn, 2010 One of the most striking features of the twentieth century has been the rapid growth of the pharmaceutical industry and the large increases in the use and consumption of its products This trend began in the first half of the century but accelerated most sharply after the Second World War when the creation of national systems of healthcare created mass markets for drugs The industry then assumed a major economic social and political significance and became one of the most highly regulated sectors of the economy attracting the attention of industry analysts

as well as academics This volume brings together a collection of papers exploring and reflecting upon some of the significant strands in the current studies of pharmaceuticals in the twentieth century They touch upon many of the issues that are matters of concern and debate today and their international and multidisciplinary approaches enrich our understanding of an object of an industry and of a process that are at the heart of our highly medicalized contemporary societies

*The Routledge Companion to Philosophy of Science* Martin Curd, Stathis Psillos, 2013-07-24 The Routledge Companion to Philosophy of Science is an indispensable reference source and guide to the major themes debates problems and topics in philosophy of science It contains sixty two specially commissioned entries by a leading team of international contributors Organized into four parts it covers historical and philosophical context debates concepts the individual sciences The Routledge Companion to Philosophy of Science addresses all of the essential topics that students of philosophy of science need to know from empiricism explanation and experiment to causation observation prediction and more and contains many helpful features including chapters on individual sciences such as biology chemistry physics and psychology further reading and cross referencing at the end of each chapter Expanded and revised throughout this second edition includes new chapters on Conventionalism Social Epistemology Computer Simulation Thought Experiments Pseudoscience Species and Taxonomy and Cosmology

**Geography and Revolution** David N. Livingstone, Charles W. J. Withers, 2010-08-15 A term with myriad associations revolution is commonly understood in its intellectual historical and sociopolitical contexts Until now almost no attention has been paid to revolution and questions of geography Geography and Revolution examines the ways that place and space matter in a variety of revolutionary situations David N Livingstone and Charles W J Withers assemble a set of essays that are themselves revolutionary in uncovering not only the geography of revolutions but the role of geography in revolutions Here scientific revolutions Copernican Newtonian and Darwinian ordinarily thought of as placeless are revealed to be rooted in specific sites and spaces Technical revolutions the advent of print time keeping and photography emerge as inventions that transformed the world's order without homogenizing it Political revolutions in France England Germany and the United States are notable for their debates on the nature of political institutions and national identity Gathering insight from geographers historians and historians of science Geography and Revolution is an invitation to take the where as seriously as the who and the when in examining the nature shape and location of revolutions

*The Cambridge Companion to Literature and Science* Steven Meyer, 2018-05-03 In 1959 C P Snow lamented the presence of what he called the two cultures the apparently unbridgeable chasm of understanding and knowledge between modern literature and modern science In recent decades scholars have worked diligently and often with great ingenuity to interrogate claims like Snow's that represent twentieth and twenty first century literature and science as radically alienated from each other The Cambridge Companion to Literature and Science offers a roadmap to developments that have contributed to the demonstration and emergence of reciprocal connections between the two domains of inquiry Weaving together theory and empiricism individual

chapters explore major figures Shakespeare Bacon Emerson Darwin Henry James William James Whitehead Einstein Empson and McClintock major genres and modes of writing fiction science fiction non fiction prose poetry and dramatic works and major theories and movements pragmatism critical theory science studies cognitive science ecocriticism cultural studies affect theory digital humanities and expanded empiricisms This book will be a key resource for scholars graduate students and undergraduate students alike

**The Atlantic Enlightenment** Francis D. Cogliano, 2017-03-02 Transatlantic studies especially during the enlightenment period is of increasing critical interest amongst scholars But was there an Atlantic Enlightenment This interdisciplinary collection harnesses the work of some of the most prominent figures in the fields of literature intellectual cultural and social history geography and political science to examine the emergence of the Atlantic as one of the key conceptual paradigms of eighteenth century studies In this spirit the contributors offer new insights into the conditions that generated a major transatlantic genre of writing addressing questions of race political economy and the transmission of Enlightenment ideas in literary political historical and religious contexts Whether examining John Witherspoon's evolution from Calvinist theologian to Revolutionary theorist or Adam Smith's reception in the antebellum United States the essays remind us that the transatlantic traffic in ideas moved from west to east from east to west and in patterns that both complicate and enrich what we thought we knew about the vectors of transmission in this pivotal period



## **Making Natural Knowledge Constructivism And The History Of Science** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Making Natural Knowledge Constructivism And The History Of Science**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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