

Ronald N. Giere

EXPLAINING SCIENCE

A COGNITIVE APPROACH



Explaining Science A Cognitive Approach Science And Its Conceptual Foundations

Ronald N. Giere



Explaining Science A Cognitive Approach Science And Its Conceptual Foundations:

Explaining Science Ronald N. Giere, 2010-12-15 This volume presents an attempt to construct a unified cognitive theory of science in relatively short compass It confronts the strong program in sociology of science and the positions of various postpositivist philosophers of science developing significant alternatives to each in a readily comprehensible style It draws loosely on recent developments in cognitive science without burdening the argument with detailed results from that source The book is thus a provocative one Perhaps that is a measure of its value it will lead scholars and serious student from a number of science studies disciplines into continued and sharpened debate over fundamental questions Richard Burian *Isis* The writing is delightfully clear and accessible On balance few books advance our subject as well Paul Teller *Philosophy of Science*

The Bloomsbury Handbook of the Philosophy of the Historical Sciences and Big History Aviezer Tucker, David Cernín, 2025-08-21 This handbook examines the philosophy of the historical sciences and their synthesis in concepts like Big or Deep History Written by interdisciplinary philosophers historians and scientists it acts as a valuable guide for anybody interested in scientific knowledge of the deep past Big History and the philosophy of science The Bloomsbury Handbook of the Philosophy of the Historical Sciences and Big History is the first philosophical reference work to recognize that History is not what it used to be the historical sciences Deep History Big History and even the history of the Anthropocene have now expanded the scope of historiography beyond that of literate civilizations to cover all scientific inferences about the past from the Big Bang through the history of the planet and the history of life to the history of humanity Different views about the scope of History have ontological epistemic methodological explanatory ethical and educational reasons and implications The historical sciences and the knowledge they have generated are founded on theories of knowledge of the past epistemology of history The contributions in this book consider whether there are common epistemic properties to all the historical sciences that distinguish them from non historical or theoretical sciences The first part of the handbook examines the recent expansion of the scope of the historical sciences in Big History natural history global history and environmental history and older broader concepts of history like universal history and philosophy of history The second part of the handbook addresses the ontology and epistemology of the past including the basic concepts of the historical sciences such as origins the end of history determination and underdetermination contingency and necessity historical predictions and counterfactuals and historical pseudoscience The third part examines the philosophies of the special historical sciences historical linguistics textual criticism geology evolutionary biology systematics archaeology cosmology history of the environment and most significantly their integrations and combinations for example how genetics archaeology and historical linguistics have generated a whole new knowledge of deep human history This collection offers an overview of what the philosophy of the historical sciences is and is becoming for students and experts alike

The Structure of Interdisciplinary Science Rolf Hvidtfeldt, 2018-06-25 This book presents a novel approach to the analysis of interdisciplinary science based on the

contemporary philosophical literature on scientific representation The basic motivation for developing this approach is that epistemic issues are insufficiently dealt with in the existing literature on interdisciplinarity This means that when interdisciplinary science is praised as it often is it is far from clear to what extent this praise is merited at least if one cares about various more or less standardised measures of scientific quality To develop a more adequate way of capturing what is going on in interdisciplinary science the author draws inspiration from the rich philosophical literature on modelling idealisation perspectivism and scientific pluralism The discussion hereof reveals a number of critical pitfalls related to transferring mathematical and conceptual tools between scientific contexts which should be relevant and interesting for anyone actively engaged in funding evaluating or carrying out interdisciplinary science Modal Empiricism Quentin Ruyant,2021-05-07 This book proposes a novel position in the debate on scientific realism Modal Empiricism Modal empiricism is the view that the aim of science is to provide theories that correctly delimit in a unified way the range of experiences that are naturally possible given our position in the world The view is associated with a pragmatic account of scientific representation and an original notion of situated modalities together with an inductive epistemology for modalities It purports to provide a faithful account of scientific practice and of its impressive achievements and defuses the main motivations for scientific realism More generally Modal Empiricism purports to be the precise articulation of a pragmatist stance towards science This book is of interest to any philosopher involved in the debate on scientific realism or interested in how to properly understand the content aim and achievements of science

The Routledge Handbook of Philosophy of Scientific Modeling Tarja Knuuttila,Natalia Carrillo,Rami Koskinen,2024-09-05 Models and modeling have played an increasingly important role in philosophy going back to the nineteenth century While philosophical interest in models has been remarkably lively over the last two decades there are still many underexplored questions The Routledge Handbook of Philosophy of Scientific Modeling is an outstanding reference source and guide to this fast growing area and is the first volume of its kind Comprised of 40 specially commissioned chapters by an international team of contributors the Handbook is organized into five clear parts Historical and General Perspectives Philosophical Accounts of Modeling Methodological Aspects Model Construction Evaluation and Calibration Related Topics Modeling in the Wild Within these parts the Handbook covers a diverse range of topics including historical perspectives on modeling the relationship between models theories representation idealization and understanding and related topics like big data simulation and statistical and computational modeling Different kinds of models are discussed for example network models financial models and climate and synthetic models The Routledge Handbook of Philosophy of Scientific Modeling is essential reading for students and scholars of philosophy of science formal epistemology and philosophy of social sciences It is also a valuable resource for those in related fields such as computer science and information technology *Science Without Laws* Ronald N. Giere,1999-06 Science without Laws thus stakes out a middle ground in these debates by demonstrating a more powerful

way of seeing science BOOK JACKET Social Simulation: Technologies, Advances and New Discoveries Edmonds, Bruce, Troitzsch, Klaus G., Hernandez Iglesias, Ces reo, 2007-08-31 This book a reference survey of social simulation work comprehensively collects the most exciting developments in the field Drawing research contributions from a vibrant community of experts on social simulation it provides a set of unique and innovative approaches ranging from agent based modeling to empirically based simulations as well as applications in business governmental scientific and other contexts Provided by publisher *The Journal of Philosophy* ,1990 Covers topics in philosophy psychology and scientific methods Vols 31 include A Bibliography of philosophy 1933 *Book Review Digest* ,1996-08 *Proceedings and Addresses of the American Philosophical Association* American Philosophical Association,1990 List of members in v 1 **American Scientist** ,1942 **Books in Series, 1876-1949** R.R. Bowker Company,1982 **The American Naturalist** ,1988 **The Review of Metaphysics** ,1987 **Books in Print Supplement** ,1994 The Reader's Adviser ,1994 **Historical Abstracts** ,1990 Semiotica ,1999 **Forthcoming Books** Rose Arny,2003-04 *American Journal of Physics* ,1989

The Enigmatic Realm of **Explaining Science A Cognitive Approach Science And Its Conceptual Foundations**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Explaining Science A Cognitive Approach Science And Its Conceptual Foundations** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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