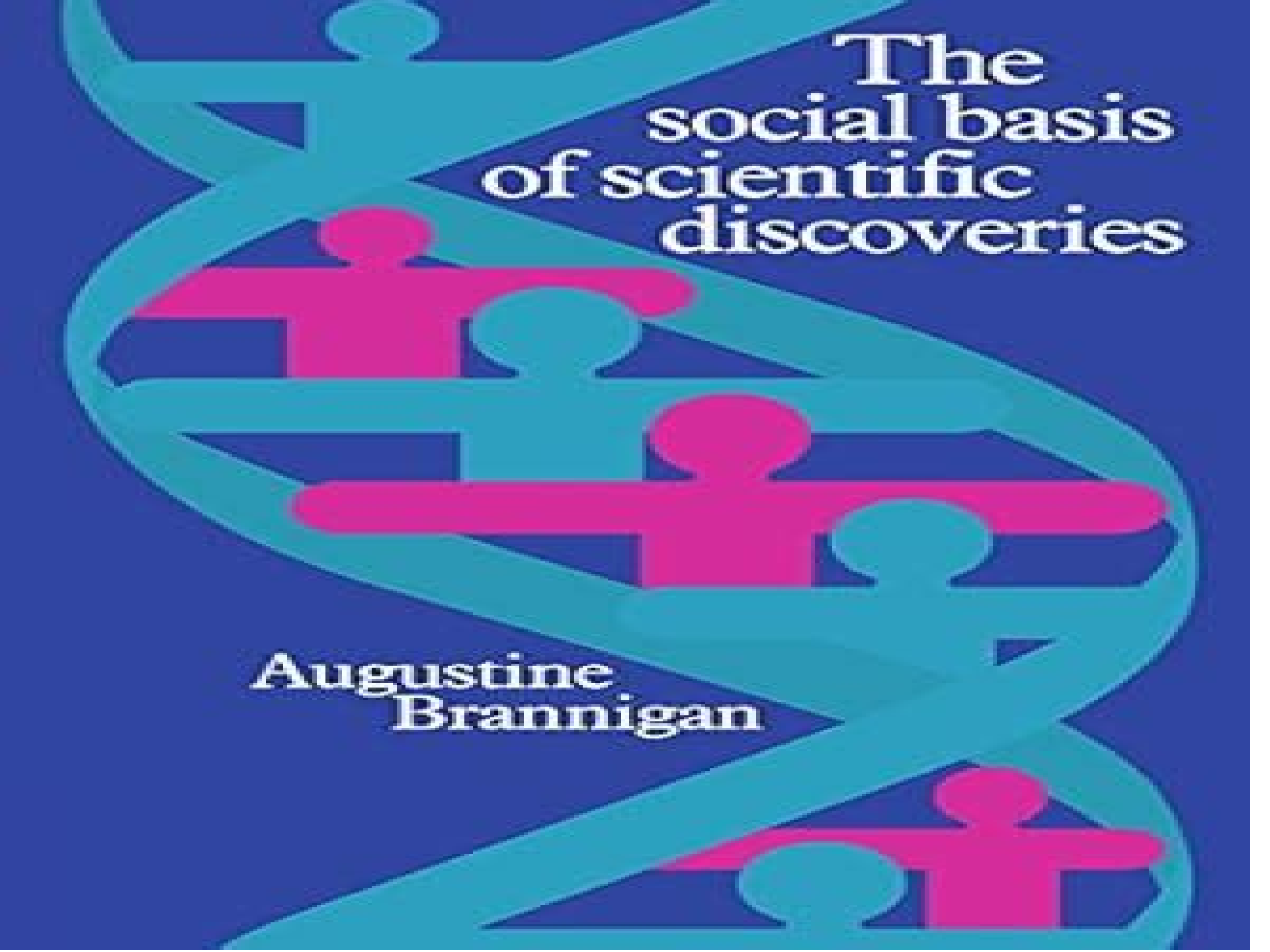


The background of the entire image is a dark blue. Overlaid on this is a large, stylized graphic of a DNA double helix. The two strands of the helix are represented by thick, light blue lines that twist around each other. Inside the loops of the helix, there are four human figures. Two of these figures are light blue, matching the strands, and are positioned at the top and bottom of the visible helix. The other two figures are magenta and are positioned in the middle loops. All figures are stylized with a circular head and a rectangular body with outstretched arms.

The social basis of scientific discoveries

Augustine
Brannigan

Social Basis Of Scientific Discoveries

Alex Csiszar



Social Basis Of Scientific Discoveries:

The Social Basis of Scientific Discoveries Augustine Brannigan, 1981-10-29 What constitutes a scientific discovery How do discoveries happen and how are they recognised as such These are questions of central concern to scientists and philosophers In this book Augustine Brannigan provides a critical examination of the major theories which have been devised to account for discoveries and innovations in science and develops a fresh alternative Dr Brannigan begins by arguing that most theories fall into one of two classes mentalistic theories which describe how ideas come into the mind and cultural theories which describe how they mature in a particular culture His account reveals a series of empirical and methodological problems that make these existing models untenable and he proposes as an alternative a sociological approach which draws attention not to what makes discoveries happen but to the processes whereby certain achievements are recognised and labelled as discoveries This approach is illustrated in detail with a number of important scientific cases The book throws light not only on the conventional character of discoveries but also on the folk elements in popular theories about discovery such as genius gestalt switch and simultaneous invention

Discovery and Classification in Astronomy Steven J. Dick, 2013-09-09 This book shows that astronomical discovery is a complex and ongoing process comprising various stages of research interpretation and understanding

Companion to the History of Modern Science G N Cantor, G.N. Cantor, J.R.R. Christie, M.J.S. Hodge, R.C. Olby, 2006-09-07 A descriptive and analytical guide to the development of Western science from AD 1500 and to the diversity and course of that development first in Europe and later across the world Presented in clear non technical language Extensive indexes of Subjects and Names Indeed a companion volume whose 67 essays give pleasure and instruction an ambitious and successful work Times Literary Supplement This work is an essential resource for libraries everywhere For specialist science libraries willing to keep just one encyclopaedic guide to history for undergraduate libraries seeking to provide easily accessible information for the devisers of university curricula for the modern social historian or even the eclectic scientist taking a break from simply making history this is the book for you Times Higher Education Supplement A pleasure to read with a carefully chosen typeface well organized pages and ample margins it is very easy to find one's way around This is a book which will be consulted widely Technovation This is a commendably easy book to use British Journal of the History of Science Scholars from other areas entering this field students taking the vertical approach and teachers coming from any direction cannot fail to find this an invaluable text History of Science Journal

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years ago derived its major impetus from historical and sociological studies of the sciences and from developments within cognitive psychology and artificial intelligence Today a large majority of philosophers of science agrees that the classical conception as well as the romantic conception are mistaken Against the classical conception it is generally accepted that truly novel discoveries are not the result of simply applying some standardized procedure Against the romantic conception it is rejected that discoveries are produced by unstructured flashes of insight An especially important result of the contemporary study concerns the availability of descriptive and normative models for explaining discoveries and creative processes Descriptive models mainly aim at explaining the origin of novel products normative models moreover address the question how rational researchers should proceed when confronted with problems for which a standard procedure is missing The present book provides an overview of these models and of the important changes they induced within methodology As appears from several papers the methodological study of discovery and creativity led to profound changes in our conceptions of justification and acceptance of rationality of scientific change and of conceptual change The book contains contributions from both historians and philosophers of science All of them however are methodological in the contemporary sense of the term The central values of this methodology are empirical accurateness clarity and precision and rationality The different contributions realize these values by their interdisciplinary nature Some philosophically oriented papers rely on historical case studies and results from the cognitive sciences others on recent results from the computer sciences and or non standard logics The historically oriented papers address central philosophical questions and hypotheses

Revisiting Discovery and Justification Jutta Schickore, Friedrich Steinle, 2006-04-18 The distinction between the contexts of discovery and justification has had a turbulent career in philosophy of science At times celebrated as the hallmark of philosophical approaches to science at times condemned as ambiguous distorting and misleading the distinction dominated philosophical debates from the early decades of the twentieth century to the 1980s Until today it informs our conception of the content domain and goals of philosophy of science It is due to this fact that new trends in philosophy of experimentation and history and sociology of science have been marginalized by traditional scholarship in philosophy To acknowledge properly this important recent work we need to re open the debate about the nature development and significance of the context distinction about its merits and flaws The contributions to this volume provide close readings and detailed analyses of the original textual sources for the context distinction They revise those accounts of forerunners of the distinction that have been written through the lens of Logical Empiricism They map clarify and analyse the derivations and mutations of the context distinctions as we encounter them in current history and philosophy of science The re evaluation of the distinction helps us deal with the philosophical challenges that the New Experimentalism and historically socio politically and economically oriented science studies have placed before us This volume thus clears the ground for the productive and fruitful integration of these new developments into philosophy of science

The Great Devonian Controversy Martin J. S. Rudwick, 2011-01-15 Arguably the best work to

date in the history of geology David R Oldroyd Science After a superficial first glance most readers of good will and broad knowledge might dismiss this book as being too much about too little They would be making one of the biggest mistakes in their intellectual lives It could become one of our century s key documents in understanding science and its history Stephen Jay Gould New York Review of Books Surely one of the most important studies in the history of science of recent years and arguably the best work to date in the history of geology David R Oldroyd Science *Thomas Kuhn* Thomas Nickles,2003
Publisher Description Science and the Quest for Reality Alfred I. Tauber,2016-07-27 Science and the Quest for Reality is an interdisciplinary anthology that situates contemporary science within its complex philosophical historical and sociological contexts The anthology is divided between firstly characterizing science as an intellectual activity and secondly defining its social role The philosophical and historical vicissitudes of science s truth claims has raised profound questions concerning the role of science in society beyond its technological innovations The deeper philosophical issues thus complement the critical inquiry concerning the broader social and ethical influence of contemporary science In the tradition of the Main Trends of the Modern World series this volume includes both classical and contemporary works on the subject **The Scientific Journal** Alex Csiszar,2018-06-25 Not since the printing press has a media object been as celebrated for its role in the advancement of knowledge as the scientific journal From open communication to peer review the scientific journal has long been central both to the identity of academic scientists and to the public legitimacy of scientific knowledge But that was not always the case At the dawn of the nineteenth century academies and societies dominated elite study of the natural world Journals were a relatively marginal feature of this world and sometimes even an object of outright suspicion The Scientific Journal tells the story of how that changed Alex Csiszar takes readers deep into nineteenth century London and Paris where savants struggled to reshape scientific life in the light of rapidly changing political mores and the growing importance of the press in public life The scientific journal did not arise as a natural solution to the problem of communicating scientific discoveries Rather as Csiszar shows its dominance was a hard won compromise born of political exigencies shifting epistemic values intellectual property debates and the demands of commerce Many of the tensions and problems that plague scholarly publishing today are rooted in these tangled beginnings As we seek to make sense of our own moment of intense experimentation in publishing platforms peer review and information curation Csiszar argues powerfully that a better understanding of the journal s past will be crucial to imagining future forms for the expression and organization of knowledge Genius and Eminence Robert S. Albert,1992 A fascinating introduction to the research into and theories of exceptional achievement Topics covered include the arguments around personal dynamics and biological processes the IQ issue and how family and learning experiences are related to achievement

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