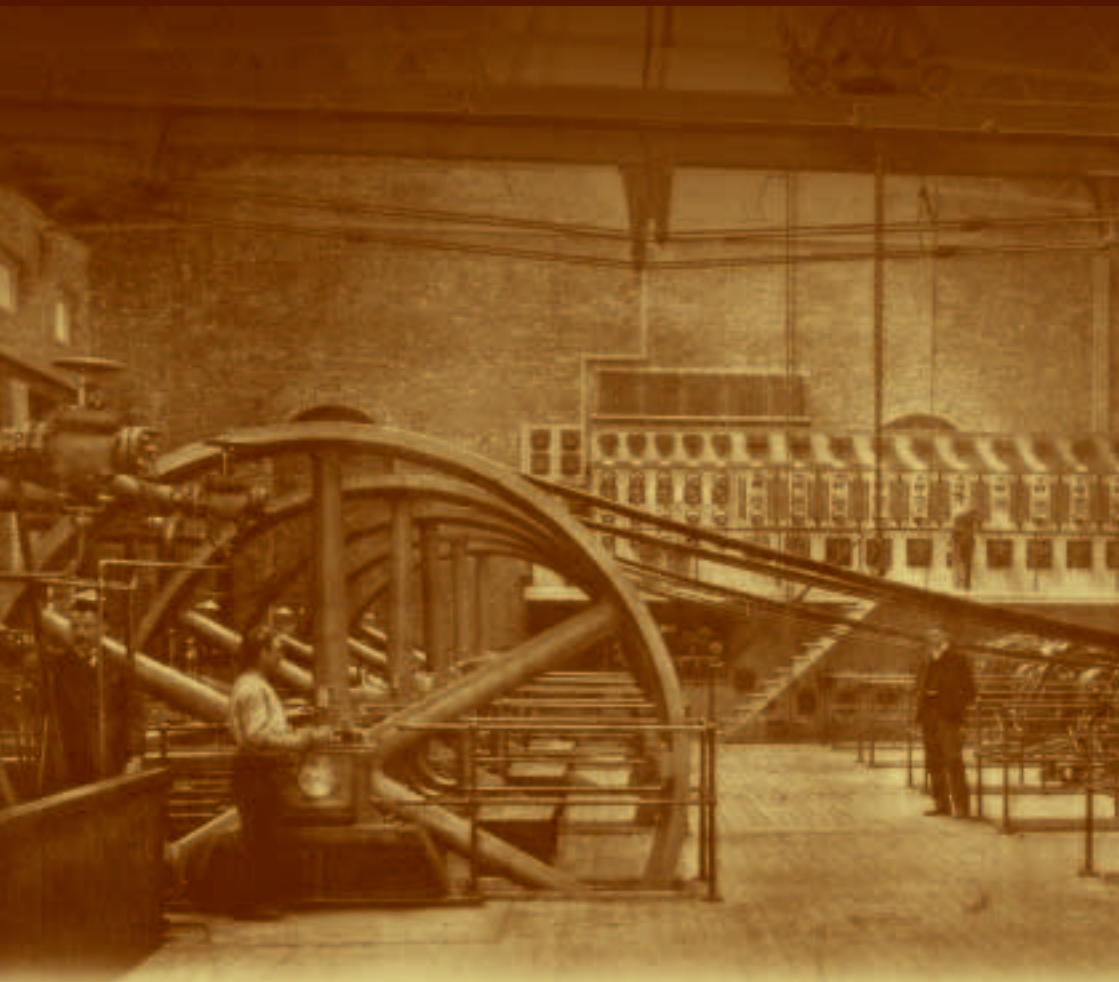


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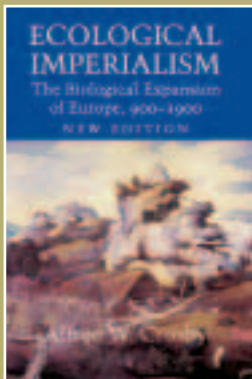


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History of Science General



FORTHCOMING

Science and Civilisation in China

Volume 5: Chemistry and Chemical Technology

Part 12: Ceramic Technology

Rose Kerr

Victoria and Albert Museum, London

and Nigel Wood

University of Westminster, Harrow

How were Chinese pots made, glazed and fired? Why did China discover porcelain more than one thousand years before the West? What are the effects of China's influence on world ceramics? These questions (and many more) are answered in this lavishly-illustrated history of Chinese ceramic technology. The scene is set through the use of historical texts, archaeological excavation, and the principles of ceramic science. Chapters follow on the formation of clays and their relation to the underlying geologies of China, on firing, on manufacturing methods and sequences, on glazes, pigments and gilding, and on the impact of Chinese ceramic technology around the world, from the seventh to the twenty-first centuries. This is a volume unique in its coverage, which brings together research materials in several languages for the first time. With additional

contributions by Ts'ai Mei-fen (National Palace Museum, Taipei) and Zhang Fukang (Shanghai Institute of Ceramics).

Science and Civilisation in China

— 2004 246 x 189 mm 600pp

75 line diagrams 55 tables

— 0 521 83833 9 Hardback c. £100.00

— **Publication September 2004**

NEW

Science and Civilisation in China

Volume 7: Science and Chinese Society

Part 2: General Conclusions and Reflections

Joseph Needham

Edited by Kenneth Girdwood

Robinson

University of Cambridge

With contributions by Ray Huang

Introduction by Mark Elvin

It would be difficult to overstate the importance of Joseph Needham's *Science and Civilisation in China* series. For nearly fifty years, Needham and his collaborators have revealed the ideals, concepts and achievements of China's scientific and technological traditions from the earliest times to about 1800 through this great enterprise. During his long working lifetime, Needham kept in draft various essays, some written with collaborators, in which he set out his broad views on the Chinese social and historical context. These essays, edited by one of his closest collaborators, Kenneth Robinson, are contained in the present volume. A reading of this material makes it possible to reconstruct the assumptions and problematics that underpinned and drove the Needham project throughout the nearly one half

century during which he was at the helm. The documents gathered here reveal the intellectual foundations of one of the greatest scholarly enterprises of the twentieth century.

Contributors: Joseph Needham, Huang Jen-yü, Kenneth Robinson

Science and Civilisation in China

- 2004 246 x 189 mm 336pp
21 half-tones
- 0 521 08732 5 Hardback £65.00

FORTHCOMING

The 1702 Chair of Chemistry at Cambridge

Transformation and Change

Edited by Mary Archer

University of Cambridge

and Christopher Haley

University of Cambridge

The University of Cambridge's 1702 chair of chemistry is the oldest continuously occupied chair of chemistry in Britain. The lives and work of the 1702 chairholders over the past three hundred years, described here, paint a vivid picture of chemistry slowly transforming from the handmaiden of alchemists and adjunct of medical men into a major academic discipline. Containing personal memoirs and historical essays by acknowledged experts, this book will engage all who are interested in the pivotal role chemistry has played in the making of the modern world.

- 2004 228 x 152 mm 305pp
55 line diagrams 37 half-tones
- 0 521 82873 2 Hardback c. £50.00
- **Publication December 2004**

FORTHCOMING

Thomas Browne and the Writing of Early Modern Science

Claire Preston

Sidney Sussex College, Cambridge

Claire Preston argues that Thomas Browne's work can be fully understood only within the range of disciplines and practices associated with natural philosophy and early modern empiricism. Early modern methods of cataloguing, collecting, experimentation and observation, drove his writing on many subjects from medicine and botany to archaeology and antiquarianism. In this illuminating study, Preston examines how the developing essay form, the discourse of scientific experiment, and above all Bacon's model of intellectual progress and cooperation determined the unique character of his contributions to early modern literature, science and philosophy.

- 2005 228 x 152 mm 230pp 6 half-tones
- 0 521 83794 4 Hardback c. £45.00
- **Publication March 2005**



FORTHCOMING

Criminals and their Scientists**The History of Criminology in International Perspective****Edited by Peter Becker and Richard F. Wetzell**

This book presents recent research on the history of criminology from the late eighteenth to the mid-twentieth century in Western Europe (Austria, Britain, France, Germany, Italy) and in Argentina, Australia, Japan, and the United States. Approaching the history of criminology as a history of science and practice, the essays examine the discourse on crime and criminals that surfaced as part of different discourses and practices, including the activities of the police and the courts, parliamentary debates, media reports, as well as the writings of moral statisticians, jurists, and medical doctors.

Publications of the German Historical Institute

- 2005 228 x 152 mm 512pp
3 line diagrams 6 half-tones 1 table
- 0 521 81012 4 Hardback £60.00
- **Publication May 2005**

NEW

Science in the Nineteenth-Century Periodical**Reading the Magazine of Nature****Geoffrey Cantor**

University of Leeds

Gowan Dawson

University of Leicester

Graeme Gooday

University of Leeds

Richard Noakes

University of Cambridge

Sally Shuttleworth

University of Sheffield

and Jonathan R. Topham

University of Leeds

For the Victorian reading public, periodicals played a far greater role than books in shaping their understanding of science, technology and medicine. Such understandings were formed not merely by serious scientific articles, but also by a wide variety of articles. Ranging across diverse forms of periodicals, this book explores the ways in which scientific ideas and developments were presented to a variety of Victorian audiences. This intriguing collaborative volume sheds new light on issues relating to history and history of science, literature, book history, and cultural and media studies.

Cambridge Studies in Nineteenth-Century Literature and Culture, 45

- 2004 228 x 152 mm 343pp 28 half-tones
3 tables
- 0 521 83637 9 Hardback £45.00
- **Publication September 2004**



NEW

Science, Reading, and Renaissance Literature

The Art of Making Knowledge, 1580–1670

Elizabeth Spiller

Texas Christian University

Science, Reading, and Renaissance Literature brings together key works in early modern science and imaginative literature (from the anatomy of William Harvey and the experimentalism of William Gilbert to the fictions of Philip Sidney, Edmund Spenser, and Margaret Cavendish). The book documents how what have become two cultures and disciplines, science and literature, have developed through a shared aesthetic that understands knowledge as an act of making.

Cambridge Studies in Renaissance Literature and Culture, 46

— 2004 228 x 152 mm 228pp 8 half-tones
— 0 521 83086 9 Hardback £45.00

NEW

The Disappearance of the Social in American Social Psychology

John D. Greenwood

City University of New York

The Disappearance of the Social in American Social Psychology is a critical conceptual history of American social psychology. John Greenwood demarcates the original conception of the social dimensions of cognition, emotion and behaviour, and of the discipline of social psychology itself, that was embraced by early twentieth century American social psychologists.

He documents how this fertile conception of social psychological phenomena came to be progressively neglected as the century developed, to the point that scarcely any trace of the original conception of the social remains in contemporary American psychology.

— 2004 228 x 152 mm 328pp
— 0 521 83014 1 Hardback £47.50

NEW

A History of Nerve Functions

From Animal Spirits to Molecular Mechanisms

Sidney Ochs

Indiana University

This fascinating history describes how our understanding of nerve cell function has developed, from the ancient Greeks through to our present understanding of the molecular mechanisms of neuronal function. Sidney Ochs begins with a chronological look at the history of nerves from the 5th century BC to the early eighteenth century. He then adopts a thematic approach, carrying key topics from the eighteenth century to the present. *A History of Nerve Functions* will serve as an invaluable resource for historians of neuroscience and medicine, philosophers of science and medicine, as well as for neuroscientists.

— 2004 228 x 152 mm 448pp
90 line diagrams 34 half-tones
— 0 521 24742 X Hardback £65.00



SECOND EDITION

The Discovery of Subatomic Particles

Second edition

Steven Weinberg

University of Texas, Austin

A fascinating account of the discoveries of the constituents of the atom. It also provides an introduction to those fundamentals of classical physics that played crucial roles in these discoveries. Connections are shown between the historic discoveries of subatomic particles and work today at the frontiers of physics.

From reviews of the first edition: 'Weinberg ... is no stranger to explaining abstruse science in a clear and engaging fashion to the general public, which is precisely what he does here. The building blocks of matter – from electrons all the way down to muons, pions, hadrons, and the charmed quark – become, in his hands, so much intellectual putty.'

The Boston Globe

- 2003 228 x 152 mm 222pp
14 line diagrams 37 half-tones 11 tables
- 0 521 82351 X Revised Edition £18.99

FORTHCOMING

Nobel Laureates and Twentieth-Century Physics**Mauro Dardo**

Università degli Studi del Piemonte Orientale (Amedeo Avogadro), Italy

In this richly-illustrated book the author combines history with science. Using an original approach he presents the major achievements of twentieth-century physics as they emerged as the product

of the genius of those physicists whose labours, since 1901, have been crowned with a Nobel Prize. In the form of a year-by-year chronicle, biographies and personal anecdotes bring to life the main events of the past hundred years. The work of the most famous physicists of the twentieth century is presented, often in the words and imagery of the prize-winners themselves.

- 2004 246 x 189 mm 543pp
53 line diagrams 170 half-tones 3 tables
- 0 521 83247 0 Hardback c. £70.00
- 0 521 54008 9 Paperback c. £24.99
- **Publication October 2004**

The Cambridge History of Science

Volume 7: The Modern Social Sciences

Edited by Theodore M. Porter

University of California, Los Angeles

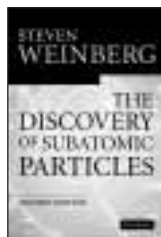
and Dorothy Ross

The Johns Hopkins University

In forty-two essays by authors from five continents and many disciplines, this volume provides a synthetic account of the history of the social sciences (including behavioural and economic sciences) since the late eighteenth century. The authors emphasize the cultural and intellectual preconditions of social science, and its contested but important role in the history of the modern world. While there are many historical books on particular disciplines, there are very few about the social sciences generally, and none that deal with so long a time span.

The Cambridge History of Science

- 2003 228 x 152 mm 790pp
- 0 521 59442 1 Hardback £95.00



Technology

FORTHCOMING

Technology and the Culture of Modernity in Britain and Germany, 1890–1945

Bernhard Rieger
Universität Bremen

This book examines the obsession for new technology that swept through Britain and Germany between 1890 and 1945. It explains how Germans and Britons nurtured a fascination for aviation, glamorous passenger liners and film as they lived through profound social transformations and two wars. Public discussions about these 'modern wonders' were torn between fears of novel risks and cultural decay on the one hand, and passionate support generated by nationalism and social fantasies on the other. This study will prove invaluable reading to anyone interested in comparative cultural history.

New Studies in European History

- 2005 228 x 152 mm 332pp 10 half-tones
- 0 521 84528 9 Hardback c. £50.00
- Publication February 2005

NEW

The Morals of Measurement

Accuracy, Irony, and Trust in Late Victorian Electrical Practice

G. J. N. Gooday
University of Leeds

The Morals of Measurement is about the development of techniques for measuring electricity in the late nineteenth century. It explores how difficult and controversial this was, in relation both to the work of engineers and the first domestic consumers of electrical lighting. It looks at the role of Lord Kelvin and his contemporaries and how they developed new instruments and new understandings of measurement. A range of irony-laden narratives and the recounting of various colourful controversies of the time bring the subject vividly to life.

- 2004 228 x 152 mm 312pp
- 14 line diagrams 1 half-tone 4 tables
- 0 521 43098 4 Hardback £55.00



NEW

Knowledge and Competitive Advantage

The Coevolution of Firms, Technology, and National Institutions

Johann Peter Murmann
Northwestern University, Illinois

This book compares the development of the synthetic dye industry in Great Britain, Germany, and the United States. The rise of this industry constitutes an important chapter in business, economic, and technological history

because synthetic dyes – invented in 1856 – represent the first time that a scientific discovery quickly gave rise to a new industry. British firms led the industry for the next eight years, but German firms came to dominate the industry for decades before World War I, while American firms played only a minor role during the entire period.

Cambridge Studies in the Emergence of Global Enterprise

- 2004 228 x 152 mm 316pp 18 line diagrams 12 tables
- 0 521 81329 8 Hardback £45.00

NEW

Frontinus: *De Aquaeductu Urbis Romae*

Edited by R. H. Rodgers

University of Vermont

This is the most authoritative edition of this work by Julius Frontinus, which deals with his duties, responsibilities and accomplishments as water commissioner for the city of Rome in 97 CE. It provides a wealth of historical, technical and legal information about the city's aqueducts and water supply.

Cambridge Classical Texts and Commentaries, 42

- 2004 216 x 138 mm 448pp 11 tables 4 maps
- 0 521 83251 9 Hardback £65.00

Mathematics

FORTHCOMING

Alfred Tarski

Life and Logic

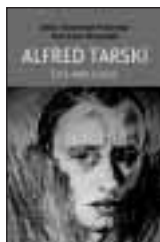
Anita Burdman Feferman

and Solomon Feferman

Stanford University, California

Alfred Tarski, one of the greatest logicians of all time, is widely thought of as 'the man who defined truth'. A charismatic teacher and zealous promoter of his view of logic as the foundation of all rational thought, he was also a bon-vivant and a womanizer. A fortuitous trip to the United States at the outbreak of war saved his life and turned his career around, even while it separated him from his family for years. By the war's end he was a professor of mathematics in Berkeley, building an empire in logic and methodology. From the cafes of Warsaw and Vienna to the mountains and deserts of California, this first full length biography places Tarski in the social, intellectual and historical context of his times and presents a frank, vivid picture of a personally and professionally passionate man, interlaced with an account of his major scientific achievements.

- 2004 228 x 152 mm 432pp 10 line diagrams 75 half-tones 1 map
- 0 521 80240 7 Hardback £23.00
- **Publication November 2004**



FORTHCOMING

Archytas of Tarentum Pythagorean, Philosopher and Mathematician King

Carl Huffman

DePauw University, Indiana

In fourth-century Greece Archytas of Tarentum solved a famous mathematical puzzle, saved Plato from the tyrant of Syracuse and led a powerful Greek city state. This book presents a radically new interpretation of his significance for fourth-century Greek thought and provides a full commentary on all the fragments and testimonia.

- 2005 228 x 152 mm 672pp 5 figures
- 0 521 83746 4 Hardback c. £85.00
- **Publication March 2005**

NEW

The Transformation of Mathematics in the Early Mediterranean World

**From Problems to Equations
Reviel Netz**

Stanford University, California

This book analyzes the historical transformation of early mathematics, from a Greek practice based on the localized solution to an Islamic practice based on the systematic approach. The transformation is accounted for in terms of changing social practices, thereby offering a radically new interpretation of the historical trajectory of mathematics.

Cambridge Classical Studies

- 2004 216 x 138 mm 208pp 18 figures
- 0 521 82996 8 Hardback £45.00

NEW

The Works of Archimedes

Translation and Commentary

Volume 1: The Two Books *On the Sphere and the Cylinder*

Edited and translated by Reviel Netz
Stanford University, California

This is Volume 1 of the first authoritative translation of Archimedes' works into English. Also provided are a scientific edition of the diagrams, a translation of the ancient commentator Eutocius and a commentary, where attention is paid to the cognitive and aesthetic nature of Archimedes' mathematical practice.

- 2004 247 x 174 mm 386pp
- 108 line diagrams
- 0 521 66160 9 Hardback £75.00

NEW

Architecture and Mathematics in Ancient Egypt

Corinna Rossi

University of Cambridge

In this book, architect and Egyptologist Corinna Rossi explores the use of numbers and geometrical figures by the Ancient Egyptians in their architectural projects and buildings. Highly illustrated with plans, diagrams and figures, this book is essential reading for all scholars of Ancient Egypt and the architecture of ancient cultures.

- 2004 247 x 174 mm 302pp
- 102 line diagrams 9 tables
- 0 521 82954 2 Hardback £60.00



NEW

Sherlock Holmes in Babylon and Other Tales of Mathematical History

Edited by **Marlow Anderson**

Victor Katz

and **Robin Wilson**

The Open University, Milton Keynes

Covering a span of almost 4000 years, from the ancient Babylonians to the eighteenth century, this collection of essays chronicles the enormous changes in mathematical thinking over this time, as viewed by distinguished historians of mathematics from the past and the present. The four sections of the book cover different epochs. This book will be enjoyed by anyone interested in mathematics and its history – and in particular by mathematics teachers at secondary, college, and university levels.

Spectrum

- 2004 265 x 186 mm 400pp
163 line diagrams 65 half-tones 6 tables
110 figures
- 0 883 85546 1 Hardback c. £30.00

NEW

Gauss

Titan of Science

G. Waldo Dunnington

With contributions by **Jeremy Gray**

The Open University, Milton Keynes

This biography of Gauss, Germany's greatest mathematician, is easily the most comprehensive in English. Long out of print and very rare in the used book market, this valuable piece of scholarship is being reissued in an

augmented form with additional material by the eminent British mathematical historian, Jeremy Gray.

Spectrum

- 2004 228 x 152 mm 600pp
49 line diagrams
- 0 883 85538 0 Hardback c. £30.00

NEW

Math through the Ages

A Gentle History for Teachers and Others

William P. Berlinghoff

Colby College, Maine

and **Fernando Gouvea**

Colby College, Maine

Where did maths come from? Who thought up all those symbols, and why? What's the story behind negative numbers? The sketches here answer these questions and many others in an informal, easygoing style that's accessible to teachers, students, and anyone who is curious about the history of mathematical ideas.

Classroom Resource Material

- 2004 228 x 152 mm 288pp
60 line diagrams 85 half-tones 46 exercises
30 figures
- 0 883 85736 7 Hardback £22.99
- **Publication September 2004**

Astronomy and Cosmology

FORTHCOMING

Centennial History of the Carnegie Institution of Washington

Volume 1: The Mount Wilson Observatory
Allan Sandage

The first of five Histories of the Carnegie Institution of Washington describes the achievements of the Mount Wilson Observatory. It brings together the science and personal stories of those involved in the development of modern theories of stellar evolution and cosmology. Fully illustrated with contemporary photographs of people and events.

- 2004 228 x 152 mm 664pp
85 line diagrams 101 half-tones
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- **Publication December 2004**

FORTHCOMING

Centennial History of the Carnegie Institution of Washington

Volume 2: The Department of Terrestrial Magnetism

Louis Brown

- 2004 228 x 152 mm 328pp
18 line diagrams 82 half-tones
- 0 521 83079 6 Hardback c. £60.00
- **Publication December 2004**

FORTHCOMING

Centennial History of the Carnegie Institution of Washington

Volume 3: The Geophysical Laboratory

Hatten S. Yoder

- 2004 228 x 152 mm 250pp
62 line diagrams 50 half-tones
- 0 521 83080 X Hardback c. £60.00
- **Publication October 2004**

FORTHCOMING

Centennial History of the Carnegie Institution of Washington

Volume 4: The Department of Plant Biology

Patricia Craig

- 2005 228 x 152 mm 316pp
63 half-tones
- 0 521 83081 8 Hardback c. £60.00
- **Publication February 2005**

FORTHCOMING

Centennial History of the Carnegie Institution of Washington

Volume 5: The Department of Embryology

Edited by Jane Maienschein

Marie Glitz

and Garland E. Allen

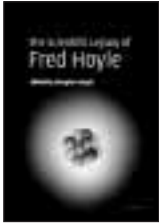
- 2004 228 x 152 mm 288pp
6 line diagrams 50 half-tones
- 0 521 83082 6 Hardback c. £60.00
- **Publication October 2004**

FORTHCOMING 5 VOLUME SET

Centennial History of the Carnegie Institution of Washington

Allan Sandage
 Louis Brown
 Hatten S. Yoder
 Patricia Craig
 Jane Maienschein
 and Marie Glitz

- 2004 228 x 152 mm 1762pp
- 0 521 84288 3 5 Volume Set c. £280.00
- **Publication October 2004**



FORTHCOMING

**The Heavenly Writing
Divination, Horoscopy, and Astronomy in Mesopotamian Culture**

Francesca Rochberg
 University of California, Riverside

This book examines the various ways the heavens were studied and understood in ancient Mesopotamia, by focusing on the observation and interpretation of celestial phenomena as signs from the gods, as well as physical phenomena in their own right. It discusses the emergence of personal astrology from the tradition of celestial divination and the way astronomical methods were employed for horoscopes. Its importance lies in its treatment of Babylonian celestial sciences as a whole (celestial divination, horoscopy, and astronomy) as a subject for the history of science and culture.

- 2004 228 x 152 mm 360pp
- 2 line diagrams
- 0 521 83010 9 Hardback £40.00
- **Publication November 2004**



FORTHCOMING

The Scientific Legacy of Fred Hoyle

Edited by Douglas Gough
 University of Cambridge

Fred Hoyle was a remarkable scientist, and made an immense contribution to many important problems in astronomy. This book is based on a meeting that was held in recognition of his work, and contains chapters by many of Hoyle's scientific collaborators. It concentrates on Hoyle's scientific legacy, and examines the influence his research has had on others and on advances in astronomy and cosmology. This wide-ranging overview will be valuable to established researchers in astrophysics and cosmology, and also to professional historians of science.

- 2004 247 x 174 mm 256pp
- 45 line diagrams 13 half-tones 2 tables
- 0 521 82448 6 Hardback c. £40.00
- **Publication November 2004**

NEW

**From Eudoxus to Einstein
A History of Mathematical Astronomy**

Christopher Linton
 Loughborough University

Since man first looked towards the heavens, a great deal of effort has been put into trying to predict and explain the motions of the sun, moon, and planets. This book describes the theories of planetary motion that have been developed through the ages, from the homocentric spheres of Eudoxus, to Einstein's general theory of relativity. It emphasises the interaction between

progress in astronomy and in mathematics, showing how the two have been inextricably linked since Babylonian times.

- 2004 228 x 152 mm 528pp
87 line diagrams 5 half-tones 15 tables
- 0 521 82750 7 Hardback £65.00

NEW

Space

In Science, Art and Society

Edited by François Penz

University of Cambridge

Gregory Radick

University of Cambridge

and Robert Howell

This collection of essays explores different perceptions of space. We are taken on a journey from the inner space of our minds, to the vacuum beyond our planet. Eight leading researchers in fields ranging from the arts and humanities to the natural sciences, discuss topics ranging from human consciousness to virtual reality, architecture and politics. Written in an accessible style for a general audience.

Darwin College Lectures, 15

- 2004 247 x 174 mm 212pp
8 line diagrams 68 half-tones
4 colour plates
- 0 521 82376 5 Hardback £30.00

NEW

Cometography

A Catalog of Comets

Volume 2: 1800–1899

Gary W. Kronk

Cometography is a four-volume catalog of every comet observed throughout history. It is the most complete and comprehensive collection of comet data available. This volume provides a complete discussion of every comet seen during the nineteenth century, including details of discovery, closest approaches to the Sun and Earth, paths across the sky, physical descriptions, orbital information, and final observations. It provides amateur and professional astronomers, as well as historians of science, with a definitive reference on comets through the ages.

Cometography

- 2004 253 x 177 mm 852pp
- 0 521 58505 8 Hardback £120.00



NEW

The Derveni Papyrus

Cosmology, Theology and Interpretation

Gábor Betegh

Central European University, Budapest

Gábor Betegh offers the first systematic reconstruction and analysis of the Derveni Papyrus, found in 1962, and discusses its significance as a document of primary importance for a better understanding of the religious and philosophical developments of the time of Socrates. Will appeal to classicists, philosophers and historians of religion.

- 2004 228 x 152 mm 452pp 1 table
5 figures
- 0 521 80108 7 Hardback £65.00



Evolution and Ecology

FORTHCOMING

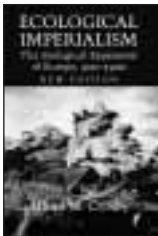
The First Americans Race, Evolution and the Origin of Native Americans

Joseph F. Powell

University of New Mexico

The recent discoveries of 9000–12000 year old skeletal remains in the Americas have begun to change our understanding of who first entered the Americas at the end of the last Ice Age. Discoveries such as Washington state's 'Kennewick Man', Brazil's 'Luzia', and Alaska's 'Prince of Wales Island Man' have challenged the archaeological and geological *status quo*. *The First Americans* explores these new discoveries by using racial classifications and micro-evolutionary techniques to better understand the complex relationships between the first Americans and living Native Indian groups.

- 2005 228 x 152 mm 250pp
24 line diagrams 7 half-tones 4 tables
- 0 521 82350 1 Hardback c. £60.00
- 0 521 53035 0 Paperback c. £30.00
- **Publication February 2005**



NEW

Fish versus Power

An Environmental History of the Fraser River

Matthew D. Evenden

University of British Columbia, Vancouver

Fish versus Power is an environmental history of the Fraser River (British Columbia) and the attempts to dam it for power and to defend it for salmon. Amid contemporary debates over large dam development, this book offers a case study of a river basin where development decisions did not ultimately dam the river, but rather conserved its salmon. Although the case is local, its implications are global as Evenden explores the transnational forces that shaped the river, and the role of environmental change in shaping environmental debate.

Studies in Environment and History

- 2004 228 x 152 mm 328pp
3 line diagrams 7 half-tones 5 tables
10 maps
- 0 521 83099 0 Hardback £40.00

NEW EDITION

Ecological Imperialism

The Biological Expansion of Europe, 900–1900

Second edition

Alfred W. Crosby

University of Texas, Austin

The military successes of European imperialism are easy to explain; in many cases they were a matter of firearms against spears. But as Alfred Crosby explains in his highly original and fascinating book, the Europeans' displacement and replacement of the

native peoples in the temperate zones was more a matter of biology than of military conquest. Now in a new edition with a new preface, Crosby revisits his now classic work and again evaluates the ecological reasons for European expansion.

'In telling his very readable story, Mr Crosby combines a historian's taste for colorful detail with a scientist's hunger for unifying and testable generalization ... [He] shows that there is more to history than kings and battles, and more to ecology than fruits and nuts.'

The Wall Street Journal

Studies in Environment and History

- 2004 228 x 152 mm 390pp
- 1 line diagram 20 half-tones 6 maps
- 0 521 83732 4 Hardback £40.00
- 0 521 54618 4 Paperback £14.99

NEW

Parasites, People, and Places

Essays on Field Parasitology

Gerald W. Esch

Wake Forest University, North Carolina

In this fascinating collection of essays on field parasitology, Gerald Esch describes scientists, the organisms they work on and the places where they occur. Taken together, the essays represent a beautifully written account of the development of an entire field of scientific endeavour spanning a period of 50 years or more.

- 2004 228 x 152 mm 250pp
- 5 line diagrams 45 half-tones 50 figures
- 0 521 81549 5 Hardback £45.00
- 0 521 89457 3 Paperback £17.99

JOURNAL

The British Journal for the History of Science

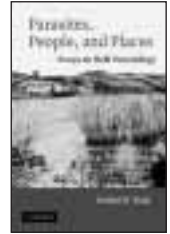
Published for the British Society for the History of Science



This leading international journal publishes scholarly papers and review articles on all aspects of the history of science. History of science is interpreted widely to include medicine, technology and social studies of science. Recent special issues include history of science sources available on the World Wide Web, book history and the sciences. *BJHS* papers make important and lively contributions to scholarship and the journal has been an essential library resource for more than thirty years. It is also used extensively by historians and scholars in related fields.

Subscriptions

- Volume 38 in 2005: March, June, September and December
- Institutions print and electronic: £125/\$204
- Institutions electronic only: £108/\$177
- Institutions print only: £116/\$190
- Special arrangements exist for members of British Society for the History of Science.
- Print ISSN 0007-0874
- Electronic ISSN 1474-001X



JOURNAL

Science in Context

Science in Context is devoted to the study of the sciences from the points of view of comparative epistemology and historical sociology of scientific knowledge. The journal is committed to an interdisciplinary approach to the study of science and its cultural development – it does not segregate considerations drawn from history, philosophy and sociology. Controversies within scientific knowledge and debates about methodology are presented in their contexts.

Subscriptions

- Volume 18 in 2005: Spring, Summer, Autumn and Winter
- Institutions print and electronic: £128/\$206
- Institutions electronic only: £107/\$173
- Institutions print only: £116/\$186
- Individuals print only: £47/\$74
- Print ISSN 0269-8897
- Electronic ISSN 1474-0664



JOURNAL

Journal of Biosocial Science

Journal of Biosocial Science is a leading journal in the field of biosocial science, the common ground between biology and sociology. It is an essential reference guide for all biological and social scientists working in such areas as reproduction and its control, gerontology, ecology, genetics, applied psychology, sociology, education, criminology, demography, health and epidemiology. Publishing original research papers, short reports, reviews, lectures and book reviews, the journal also includes a Debate section which encourages comments on specific articles, with subsequent response from the original author.

**Subscriptions**

- Volume 37 in 2005: January, March, May, July, September and November
- Institutions print and electronic: £170/\$280
- Institutions electronic only: £145/\$234
- Institutions print only: £160/\$256
- Biosocial Society, Galton Institute: £36/\$58
- British Society for Population Studies, Society for the Study of Human Biology, International Association of Human Biologists: £50/\$80
- Print ISSN 0021-9320
- Electronic ISSN 1469-7599

History of Medicine

FORTHCOMING

Medicine and Philosophy in Classical Antiquity

**Doctors and Philosophers on
Nature, Soul, Health and Disease**

Philip J. van der Eijk

University of Newcastle upon Tyne

This collection brings together Professor van der Eijk's previously-published essays on the close connections that existed between medicine and philosophy throughout classical antiquity. Hippocrates, Galen and other medical authors elaborated philosophical methods such as causal explanation, definition and division, and applied key concepts such as the notion of nature to their understanding of the human body. The role of key philosophical figures such as Aristotle in the history of medicine is also explored. The essays, some translated into English for the first time, provide a significant survey of the topic.

– 2005 228 x 152 mm 350pp

– 0 521 81800 1 Hardback c. £50.00

– **Publication April 2005**

FORTHCOMING

Biomedicine and the Human Condition

Challenges, Risks and Rewards

Michael Sargent

National Institute for Medical Research, London

How to avoid disease, how to breed successfully, and how to live to a reasonable age are questions that have perplexed humankind throughout history. This book explores our progress in understanding these challenges, and the risks and rewards of our attempts to find solutions. The issues covered include reproduction, the development of human progeny from conception to adulthood, staying healthy, ageing, cancer, infection and the burden of our genetic legacy. The author discusses traditional and more recent approaches to these problems and also debates the ethical checkpoints encountered.

– 2005 228 x 152 mm 376pp

7 line diagrams 5 tables

– 0 521 83366 3 Hardback c. £40.00

– 0 521 54148 4 Paperback c. £18.99

– **Publication March 2005**



NEW

Medicine, Science, and Merck

Roy Vagelos

The Johns Hopkins University

and Louis Galambos

The Johns Hopkins University

In *Medicine, Science, and Merck*, the authors trace the careers of a son of Greek immigrants as he mastered three professions and ultimately became the Chief Executive Officer of America's most admired corporation – the multinational, pharmaceutical giant,

Merck & Co., Inc. As the authors show, there was hope even for a wise-cracking kid living through the hard times of the 1930s. Education brought out the scholar in Roy Vagelos, who left his family's small restaurant to attend the University of Pennsylvania, Columbia's Medical School, and Massachusetts General Hospital in Boston. At NIH, he mastered biochemistry; at Washington University he became a distinguished science administrator; and at Merck, he headed the pharmaceutical industry's most innovative laboratory and then became its CEO. Throughout, he never lost touch with his family values, his intense desire to help others, or his faith in the partnership principle and the competition that makes it work.

– 2004 228 x 152 mm 314pp 1 half-tone
– 0 521 66295 8 Hardback £25.00

SECOND EDITION

America's Forgotten Pandemic

The Influenza of 1918

Second edition

Alfred W. Crosby

University of Texas, Austin

Between August 1918 and March 1919 the Spanish influenza claimed over 25 million lives – more people than perished in the fighting of the First World War. In this vivid narrative, Alfred W. Crosby recounts the course of the pandemic, measures its impact on American society, and probes the curious loss of national memory of this cataclysmic event. In a new edition, with a new preface discussing the recent outbreaks of diseases, including the

Asian flu and the SARS epidemic, *America's Forgotten Pandemic* remains both prescient and relevant.

– 2003 228 x 152 mm 352pp
3 line diagrams 9 tables 1 map
– 0 521 83394 9 Hardback £42.50
– 0 521 54175 1 Paperback £15.99

The Cambridge Historical Dictionary of Disease

Edited by Kenneth F. Kiple

Bowling Green State University, Ohio

This dictionary comprises a history and description of the world's major diseases in chapters that are organized alphabetically from 'Acquired Immune Deficiency Syndrome (AIDS)' to 'Yellow Fever'. With contributions from over 100 medical and social scientists, this is a truly interdisciplinary history of medicine and human disease.

– 2003 253 x 177 mm 426pp
– 0 521 80834 0 Hardback £50.00
– 0 521 53026 1 Paperback £19.99



Philosophy of Science

FORTHCOMING

What Makes Biology Unique?

Considerations on the Autonomy of a Scientific Discipline

Ernst Mayr

Harvard University, Massachusetts

A collection of revised, collected, and new essays written by Ernst Mayr in time for his 100th birthday. Mayr, the most eminent evolutionary biologist of the past century, explores biology as an autonomous science, offers insights on the history of evolutionary thought, critiques the contributions of philosophy to the science of biology, and comments on several of the major ongoing issues in evolutionary theory. Notably, he explains that Darwin's theory of evolution is actually five separate theories, each with its own history, trajectory and impact. He points out that a number of the perennial Darwinian controversies may well have been caused by the confounding of the five separate theories into a single composite. Those interested in evolutionary theory, or the philosophy and history of science will find useful ideas in this book, which should appeal to virtually anyone with a broad curiosity about biology.

'In this first book of the second century of his long career, the biologist Ernst Mayr at age 100 has given us his reflections on the most interesting and important questions about life: why living things can't be understood just

as very complex machines, how humans evolved, why we haven't yet communicated with any extraterrestrials, and others. Written with a clarity and vigor that shine from every page, this book is best summarized in one word: exciting!

Jared Diamond, Professor of Geography, UCLA, author of *Guns, Germs and Steel* (Pulitzer Prize, 1998)

- 2004 228 x 152 mm 240pp
- 0 521 84114 3 Hardback c. £25.00
- **Publication October 2004**

NEW

The Philosophy of Biology

An Episodic History

Marjorie Grene

Virginia Polytechnic Institute and State University

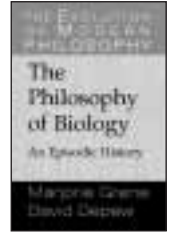
and David Depew

University of Iowa

Is life different from the non-living? If so, how? And how, in that case, does biology as the study of living things differ from other sciences? These questions are traced through an exploration of episodes in the history of biology and philosophy.

The Evolution of Modern Philosophy

- 2004 228 x 152 mm 440pp
- 2 line diagrams
- 0 521 64371 6 Hardback £45.00
- 0 521 64380 5 Paperback £19.99
- **Publication September 2004**



FORTHCOMING

Darwinian HeresiesEdited by **Abigail Lustig**

Massachusetts Institute of Technology

Robert J. Richards

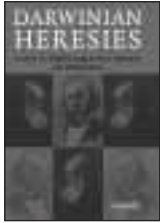
University of Chicago

and **Michael Ruse**

Florida State University

Some of today's leading historians and philosophers of science trace the history of evolutionary thought, and challenge many of the assumptions that have built up over the years. It is suggested that Darwin's true roots lie in Germany, not his native England, that Russian evolutionism is more significant than many are prepared to allow, and that the true influence on twentieth-century evolution biology was not Charles Darwin at all, but his contemporary, Herbert Spencer. The collection is guaranteed to interest, to excite, to infuriate, and to stimulate further work.

- 2004 228 x 152 mm 208pp
- 0 521 81516 9 Hardback £40.00
- **Publication October 2004**



NEW

The Evolution of Darwinism**Selection, Adaptation and Progress in Evolutionary Biology****Timothy Shanahan**

Loyola Marymount University, California

The Evolution of Darwinism focuses on three issues of debate in Darwin's theory of evolution – the nature of selection, the nature and scope of adaptation, and the question of evolutionary progress. It traces the varying interpretations to which these issues were subjected from the

beginning and the fierce contemporary debates still raging on. Written in a clear and non-technical style, this book will be of use as a textbook for students in the philosophy of science who need to become familiar with the background to the contemporary debates about evolution.

- 2004 228 x 152 mm 352pp 2 tables
- 0 521 83413 9 Hardback £50.00

NEW

Can a Darwinian be a Christian?**The Relationship between Science and Religion****Michael Ruse**

Florida State University

Can someone who accepts Darwin's theory of natural selection subscribe at the same time to the basic tenets of Christianity? Adopting a balanced perspective on the subject, Michael Ruse argues that, although it is at times difficult for a Darwinian to embrace Christian belief, it is by no means inconceivable. Writing with verve and avoiding technical jargon, Michael Ruse has produced an important contribution to a sometimes overheated debate for anyone interested in, and perhaps even troubled by these issues, who seeks an informed and judicious guide.

- 2004 228 x 152 mm 256pp 11 half-tones
- 0 521 63716 3 Paperback £13.99
- **Publication September 2004**

FORTHCOMING

Genes and the Agents of Life**Robert Wilson**

University of Alberta

This book undertakes to rethink the place of the individual in the biological sciences, drawing parallels with the cognitive and social sciences. It includes highly accessible discussions of genetic encoding, species and natural kinds, and pluralism above the levels of selection, drawing on work from across the biological sciences. The book is a companion to the author's *Boundaries of the Mind*, also available from Cambridge, where the focus is the cognitive sciences. It will appeal to professionals and students in philosophy, biology, and the history of science.

- 2004 228 x 152 mm 312pp
2 line diagrams 3 half-tones 13 tables
- 0 521 83646 8 Hardback £45.00
- 0 521 54495 5 Paperback £17.99
- **Publication November 2004**

NEW

Boundaries of the Mind**Robert Wilson**

University of Alberta

Where does the mind begin and end? Most philosophers and cognitive scientists take the view that the mind is bounded by the skull or skin of the individual. Robert Wilson, in this provocative and challenging new book, provides the foundations for the view that the mind extends beyond the boundary of the individual. Written with verve and clarity, this ambitious book

will appeal to a broad swathe of professionals and students in philosophy, psychology, cognitive science, and the history of the behavioural and human sciences.

- 2004 228 x 152 mm 392pp
13 line diagrams 2 half-tones
- 0 521 83645 X Hardback £40.00
- 0 521 54494 7 Paperback £16.99
- **Publication September 2004**

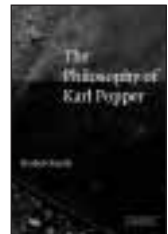
FORTHCOMING

The Philosophy of Karl Popper**Herbert Keuth**

Eberhard-Karls-Universität, Tübingen, Germany

This is a systematic exposition of Popper's philosophy covering in part 1 the philosophy of science, in part 2 the social philosophy, and in part 3 the later metaphysics, in particular the theses to solve indeterminism/determinism and mind/body problems, and the famous idea of a third world of objective thought. This book is more comprehensive than any current introduction to Popper. Its perspicuous structure and lucid exposition should ensure that it could be used in courses in both the philosophy of science and the philosophy of social science.

- 2004 228 x 152 mm 384pp
- 0 521 83946 7 Hardback £45.00
- 0 521 54830 6 Paperback £18.99
- **Publication December 2004**



NEW

Popper, Otto Selz and the Rise Of Evolutionary Epistemology

Michel Ter Hark

Rijksuniversiteit Groningen, The Netherlands

This groundbreaking book is about Karl Popper's early writings before he began his career as a philosopher. The purpose of the book is to demonstrate that Popper's philosophy of science, with its emphasis on the method of trial and error, is largely based on the psychology of Otto Selz, whose theory of problem solving and scientific discovery laid the foundation for much of contemporary cognitive psychology. The book concludes with a reinterpretation of Popper's theory of the mind-body problem, emphasizing its contemporary relevance.

- 2004 228 x 152 mm 262pp
11 line diagrams
- 0 521 83074 5 Hardback £45.00

NEW

The Cambridge Companion to Quine

Edited by Roger F. Gibson Jr.

Washington University, St Louis

W. V. Quine (1908–2000) was quite simply the most distinguished analytic philosopher of the later half of the twentieth century. His celebrated attack on the analytic/synthetic tradition heralded a major shift away from the views of language descended from logical positivism. His most important book, *Word and Object*, introduced the concept of indeterminacy of radical

translation, a bleak view of the nature of the language with which we ascribe thoughts and beliefs to ourselves and others.

Cambridge Companions to Philosophy

- 2004 228 x 152 mm 344pp
- 0 521 63056 8 Hardback £47.50
- 0 521 63949 2 Paperback £18.99

NEW EDITION

Immanuel Kant: Prolegomena to Any Future Metaphysics That Will Be Able to Come Forward as Science: With Selections from the Critique of Pure Reason

Second edition

Edited and translated by Gary Hatfield

University of Pennsylvania

This new, revised edition of Kant's *Prolegomena* includes selections from the *Critique of Pure Reason* (which fill out and explicate some of Kant's central arguments), together with the first reviews of the *Critique*, to which Kant responded in the *Prolegomena*.

Cambridge Texts in the History of Philosophy

- 2004 228 x 152 mm 270pp
- 0 521 82824 4 Hardback £35.00
- 0 521 53535 2 Paperback £13.99



NEW

Kant: Metaphysical Foundations of Natural Science

Edited by Michael Friedman

Stanford University, California

Kant was centrally concerned with issues in the philosophy of natural science throughout his career. The *Metaphysical Foundations of Natural Science* presents his most mature reflections on these themes in the context of both his 'critical' philosophy, presented in the *Critique of Pure Reason*, and the natural science of his time. This volume presents a new translation which is especially clear and accurate, together with an historical and philosophical introduction and a guide to further reading.

Cambridge Texts in the History of Philosophy

- 2004 228 x 152 mm 159pp 5 figures
- 0 521 83616 6 Hardback £32.50
- 0 521 54475 0 Paperback £10.99
- **Publication September 2004**

NEW

Philosophical History and the Problem of Consciousness

An Investigation in the Philosophy of Mind

Paul M. Livingston

Villanova University, Pennsylvania

The problem of explaining consciousness today remains a problem about the meaning of language: the ordinary language of consciousness in which we define and express our sensations, thoughts, dreams and memories. This book argues that the contemporary

problem arises from a quest that has taken shape over the twentieth century, and that the analysis of history provides new resources for understanding and resolving it. Paul Livingston traces the development of the characteristic practices of analytic philosophy to problems about the relationship of experience to linguistic meaning.

- 2004 228 x 152 mm 296pp
- 2 line diagrams
- 0 521 83820 7 Hardback £45.00
- **Publication September 2004**

NEW

Understanding Phenomenal Consciousness

William S. Robinson

Iowa State University

Understanding Phenomenal

Consciousness focuses on sensory experience and perception qualities to present a dualistic view of the mind, called Qualitative Event Realism, that goes against the dominant materialist views. This theory is relevant to the development of a science of consciousness which is now being pursued not only by philosophers but by researchers in psychology and the brain sciences. This provocative book will interest students and professionals who work in the philosophy of mind and will also have cross-disciplinary appeal in cognitive psychology and the brain sciences.

Cambridge Studies in Philosophy

- 2004 228 x 152 mm 276pp
- 2 line diagrams
- 0 521 83463 5 Hardback £45.00



NEW

New Essays on the History of Autonomy

Natalie Brender

Wesleyan University, Connecticut

and Larry Krasnoff

College of Charleston, South Carolina

Kantian autonomy is often thought to be independent of time and place, but J. B. Schneewind in his landmark study, *The Invention of Autonomy*, has shown that there is much to be learned by setting Kant's moral philosophy in the context of the history of modern moral philosophy. The distinguished authors in the collection continue Schneewind's project by relating Kant's work to the historical context of his predecessors and to the empirical context of human agency. This will be a valuable resource for professionals and advanced students.

- 2004 228 x 152 mm 224pp
- 0 521 82835 X Hardback £45.00

NEW

Debating Design

From Darwin to DNA

Edited by William Dembski

Baylor University, Texas

and Michael Ruse

Florida State University

This volume provides a comprehensive and even-handed overview of the debate concerning biological origins. This has been a controversial debate ever since Darwin published *The Origin of Species* in 1859. Invariably the source of controversy has been design. In this unique survey leading figures in the debate argue for their respective

positions in a non-technical, accessible style. Readers are thus invited to draw their own conclusions. Two introductory essays furnish a historical overview of the debate.

- 2004 228 x 152 mm 424pp 5 half-tones
1 table
- 0 521 82949 6 Hardback £35.00
- **Publication September 2004**

NEW

Plato's Natural Philosophy

A Study of the *Timaeus-Critias*

Thomas Kjeller Johansen

University of Edinburgh

Plato's dialogue the *Timaeus-Critias* presents two connected accounts: the famous story of Atlantis and its defeat by ancient Athens, and the story of the creation of the cosmos by a divine craftsman. This book explains, for the first time, the connection between these two stories on a teleological ground, that is, regarding them as accounts of how things happen for the best. The book interprets the *Timaeus* as an important stage in the development of the Aristotelian tradition of natural philosophy, whilst tackling many of the dialogue's puzzles.

- 2004 228 x 152 mm 224pp
- 0 521 79067 0 Hardback £45.00



NEW

The Evidence for the Top Quark

Objectivity and Bias in Collaborative Experimentation

Kent W. Staley

St Louis University, Missouri

The Evidence for the Top Quark offers both a historical and philosophical perspective on an important recent discovery in particle physics: the first evidence for the elementary particle known as the top quark. Drawing on published reports, oral histories, and internal documents from the large collaboration that performed the experiment, Kent Staley explores in detail the controversies and politics that surrounded this major scientific result. At the same time the book seeks to defend an objective theory of scientific evidence based on error probabilities.

'... a significant contribution to the history and philosophy of both experiment and science.'

Allen Franklin, University of Colorado at Boulder, author of *The Neglect of Experiment*

- 2004 228 x 152 mm 360pp
11 line diagrams 28 half-tones 5 tables
- 0 521 82710 8 Hardback £45.00

NEW

Quantum Theory as an Emergent Phenomenon

Stephen Adler

Institute for Advanced Study, Princeton, New Jersey

Quantum mechanics is our most successful physical theory. However, it raises conceptual issues that have perplexed physicists and philosophers of

science for decades. This book develops a new approach, based on the proposal that quantum theory is not a complete, final theory, but in fact an emergent phenomenon arising from a deeper level of dynamics.

- 2004 247 x 174 mm 240pp 2 figures
- 0 521 83194 6 Hardback £40.00

NEW

Science and Ultimate Reality

Quantum Theory, Cosmology, and Complexity

Edited by John D. Barrow

University of Cambridge

Paul C. W. Davies

Macquarie University, Sydney

and Charles L. Harper, Jr

John Templeton Foundation

This volume provides a fascinating snapshot of the future of physics. It comprises contributions from leading thinkers in the field, inspired by the pioneering work of John Wheeler. Quantum theory represents a unifying theme within the book, covering topics such as the nature of physical reality, cosmic inflation, the arrow of time, models of the universe, superstrings, quantum gravity and cosmology.

Attempts to formulate a final unification of physics are discussed, along with the existence of hidden dimensions of space, hidden cosmic matter, and the strange world of quantum technology.

- 2004 247 x 174 mm 742pp
53 line diagrams 8 half-tones
- 0 521 83113 X Hardback £38.00



NEW EDITION

Speakable and Unspeakable in Quantum Mechanics

Collected Papers on Quantum Philosophy

Second edition

J. S. Bell

Introduction by Alain Aspect

John Bell, FRS was one of the leading expositors and interpreters of modern quantum theory. His work played a major role in the development of our current understanding of the profound nature of quantum concepts. This book includes all of John Bell's published and unpublished papers in the field, including two papers that appeared after the first edition was published. The book includes a Preface written for the first edition, and an introduction by Alain Aspect that puts into context Bell's enormous contribution to the quantum philosophy debate.

From reviews of the first edition:
'... a timely and immensely valuable book ... much of [it] is so good that it surely could not be bettered.'

New Scientist

- 2004 228 x 152 mm 288pp
36 line diagrams
- 0 521 81862 1 Hardback £55.00



Symmetries in Physics

Philosophical Reflections

Edited by Katherine Brading

Wolfson College, Oxford

and Elena Castellani

Università degli Studi, Florence

Symmetry considerations dominate modern fundamental physics, both in quantum theory and in relativity. This book brings together current philosophical discussions of symmetry in physics, highlighting the main issues and controversies, and providing an entry into the subject for both physicists and philosophers. It covers topical issues such as the significance of gauge symmetry, particle identity in quantum theory, how to make sense of parity violation, the role of symmetry-breaking, the empirical status of symmetry principles, and so forth, along with more traditional problems in the philosophy of science. These include the status of the laws of nature, the relationships between mathematics, physical theory, and the world, and the extent to which mathematics dictates physics. A valuable reference for students and researchers, it will also be of interest to those studying the foundations of physics, philosophy of physics and philosophy of science.

- 2003 247 x 174 mm 458pp
19 line diagrams
- 0 521 82137 1 Hardback £65.00

Cambridge Studies in Philosophy and Biology

Series Editor: Michael Ruse
University of Guelph

This major series publishes the very best work in the philosophy of biology. Interdisciplinary in character, the series extends across the broadest range of topics: evolutionary theory, population genetics, molecular biology, ecology, human biology, systematics, and more. A special welcome is given to contributions treating significant advances in biological theory and practice, such as those that emerge from the Human Genome Project. At the same time, due emphasis is given to the historical context of the subject, and there is an important place for projects that support philosophical claims with historical case studies.

FORTHCOMING

The Philosophy of Experimental Biology

Marcel Weber
Universität Hannover, Germany

Philosophy of Experimental Biology explores some central philosophical issues concerning scientific research in modern experimental biology, including genetics, biochemistry, molecular biology, developmental biology, neurobiology, and microbiology.

Cambridge Studies in Philosophy and Biology

- 2004 228 x 152 mm 376pp
13 half-tones 7 tables
- 0 521 82945 3 Hardback £45.00
- **Publication October 2004**

FORTHCOMING

Philosophy and Biodiversity

Edited by Markku Oksanen
University of Kuopio, Finland
and Juhani Pietarinen
University of Turku, Finland

This important collection focuses on the nature and importance of biodiversity. The concept is clarified and its intrinsic and instrumental value is discussed. The book will be of interest to philosophers of science and biologists, but also to anyone interested in conservation and the environment.

Cambridge Studies in Philosophy and Biology

- 2004 228 x 152 mm 256pp
11 line diagrams 3 half-tones
- 0 521 80430 2 Hardback £45.00
- **Publication October 2004**



NEW

Information and Meaning in Evolutionary Processes

William F. Harms
University of British Columbia, Vancouver

Using evolutionary theory as the key to the naturalization of epistemology, William Harms seeks to develop the tools necessary to transform the philosophical study of knowledge into a proper scientific discipline. This book will appeal to students and professionals in epistemology and the philosophy of science.

Cambridge Studies in Philosophy and Biology

- 2004 228 x 152 mm 280pp
34 line diagrams 8 tables
- 0 521 81514 2 Hardback £45.00

NEW

Embryology, Epigenesis and Evolution

Taking Development Seriously

Jason Scott Robert

Dalhousie University, Nova Scotia

This book explores the nature of development against current trends in biological theory and practice and looks at the interrelations between development and evolution, an area of resurgent biological interest. Clearly written, it should be of interest to students and professionals in the philosophy of science and the philosophy of biology.

Cambridge Studies in Philosophy and Biology

- 2004 228 x 152 mm 174pp
- 3 line diagrams 9 half-tones
- 0 521 82467 2 Hardback £40.00



NEW

Natural Kinds and Conceptual Change

Joseph LaPorte

Hope College, Michigan

Joseph LaPorte argues that scientists have found that sentences about natural kinds were vague in the language of earlier speakers and they have refined the meanings of these terms to make the sentences true. In the process, however, they have also changed the meaning of these terms.

Cambridge Studies in Philosophy and Biology

- 2004 228 x 152 mm 232pp
- 6 line diagrams 1 half-tone
- 0 521 82599 7 Hardback £45.00

NEW

The Evolution of Reason

Logic as a Branch of Biology

William S. Cooper

University of California, Berkeley

In this book, William S. Cooper outlines a theory of rationality in which logical law emerges as an intrinsic aspect of evolutionary biology. This biological perspective on logic, though at present unorthodox, could change traditional ideas about the reasoning process.

Cambridge Studies in Philosophy and Biology

- 2004 228 x 152 mm 236pp
- 28 line diagrams
- 0 521 54025 9 Paperback £18.99

NEW

The Science of the Struggle for Existence On the Foundations of Ecology

Gregory J. Cooper

Washington and Lee University, Virginia

This book is the first examination in almost a decade of issues in the philosophy of ecology that have been a source of controversy since the emergence of ecology as an explicit scientific discipline.

Cambridge Studies in Philosophy and Biology

- 2004 228 x 152 mm 336pp
- 6 line diagrams
- 0 521 80432 9 Hardback £45.00

JOURNAL

**Arabic Sciences and
Philosophy****A Historical Journal**

This international journal is devoted to the history of the Arabic sciences, mathematics, and philosophy in the world of Islam between the eighth and the eighteenth centuries in a cross-cultural context. It publishes original studies of the highest standard on the history of these disciplines as well as studies of the inter-relations between Arabic sciences and philosophy, and Greek, Indian, Chinese, Latin, Byzantine, Syriac, and Hebrew sciences and philosophy.

**Subscriptions**

- Volume 15 in 2005: March and September
Institutions print and electronic: £108/\$173
Institutions electronic only: £90/\$145
Institutions print only: £96/\$150
Individuals print only: £44/\$66
Special arrangements exist for members of International Society for the History of Arabic Sciences and Philosophy.
Print ISSN 0957-4239
Electronic ISSN 1474-0524

JOURNAL

**Modern Intellectual
History**

Launched in 2004, this important new journal will serve as a focal point and forum for scholarship on intellectual history and related fields in cultural history from 1650 onwards, with primary attention to Europe and the United States but also to transnational developments that encompass the non-West. MIH will enquire into this era's intellectual discourses and texts, their contextual origins and reception, and the recovery of their historical meanings. The term "texts" will encompass various forms of intellectual and cultural expression, including political thought, philosophy, religion, literature, the social sciences, the natural sciences, and the visual arts.

**Subscriptions**

- Volume 2 in 2005: April, August and November
Institutions print and electronic: £98/\$148
Institutions electronic only: £85/\$130
Institutions print only: £94/\$141
Individuals print only: £25/\$37
Students: £18/\$27
Print ISSN 1479-2443
Electronic ISSN 1479-2451



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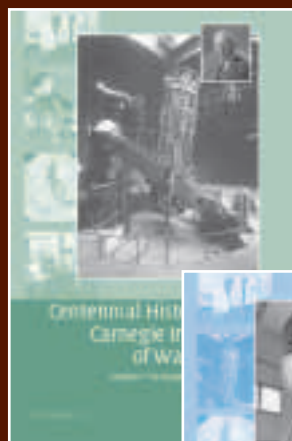
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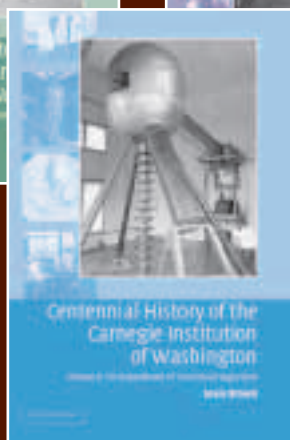
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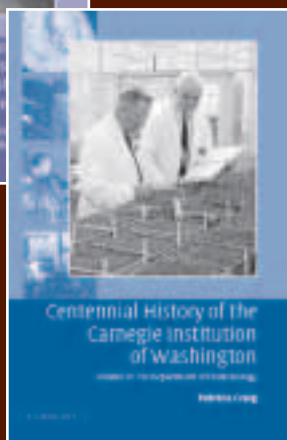
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