University of Minnesota Press

Philosophy of Science

Scientific Explanation Minnesota Studies in the Philosophy of Science, volume XIII PHILIP KITCHER and WESLEY C. SALMON, editors

Nine distinguished scholars assess the current status of philosophical thought on the nature of scientific explanation.

ISBN 0-8166-1773-2

cloth \$35.00

Narrative Experiments The Discursive Authority of Science and Technology GAYLE L. ORMISTON and RAPHAEL SASSOWER

Chronicles the authors' avowedly experimental journey through the labyrinths of cultural and linguistic usage to construct a refreshing new perspective on the domains of inquiry we call "science" and "technology."

ISBN 0-8166-1820-8 cloth \$35.00 ISBN 0-8166-1821-6 paper \$14.95

The Anatomy of Judgment PHILIP REGAL

An expansive, interdisciplinary work establishing a context for scientific thinking, its powers, its self-limitations, and the crosspurposes created for it by Western society.

ISBN 0-8166-1823-2 cloth \$39.50 ISBN 0-8166-1824-0 paper \$14.95 Fashions in Science Opinion Leaders and Collective Behavior in the Social Sciences IRWIN SPERBER

Explores the pervasive irrationality operating in science, a realm assumed to be grounded in the rational.

ISBN 0-8166-1758-9 ISBN 0-8166-1759-7 cloth \$39.50 paper \$14.95

Recent volumes in the series Minnesota Studies in the Philosophy of Science:

Rereading Russell: Essays on Bertrand Russell's Metaphysics and Epistemology C. WADE SAVAGE and C. ANTHONY ANDERSON, editors MSPS Volume XII (1989) ISBN 0-8166-1649-3 cloth \$29.50

History and Philosophy of Modern Mathematics WILLIAM ASPRAY and PHILIP KITCHER, editors MSPS Volume XI (1988) ISBN 0-8166-1566-7 cloth \$35.00 paper \$13.95

Testing Scientific Thories JOHN EARMAN

MSPS Volume X (1984) ISBN 0-8166-1158-0 cloth \$39.50 ISBN 0-8166-1159-9 paper \$16.95

University of Minnesota Press ■ Minneapolis 55414 1-800-388-3863 (toll free) ■ VISA/MasterCard accepted 612/626-7313 (fax)

Thinking Science



SELECTED PAPERS S. Chandrasekhar

Planned as a six-volume set, the Selected Papers of S. Chandrasekhar demonstrate the breadth and influence of his work in physics and astrophysics.

VOLUME 1

Stellar Structure and Stellar Atmospheres Paper \$29.95 530 pages Frontispiece Library cloth edition \$74.95

VOLUME 2

Radiative Transfer and Negative Ion of Hydrogen

Paper \$29.95 640 pages Frontispiece,

7 line drawings Library cloth edition \$74.95

VOLUME 3

Stochastic, Statistical, and Hydromagnetic Problems in Physics and Astronomy Paper \$29.95 (est.) 656 pages (est.)

5 halftones

Library cloth edition \$79.95 (est.)

VOLUME 4

Plasma Physics, Hydrodynamic and Hydromagnetic Stability, and Applications of the Tensor-Virial Theorem Paper \$29.95 (est.) 600 pages (est.) Library cloth edition \$79.95 (est.)

THE REFLEXIVE THESIS

Wrighting Sociology of Scientific Knowledge

Malcolm Ashmore

With a Foreword by Steve Woolgar This outrageously inventive book tests reflexivity as a practical issue that arises in the course of scholarly research and argument. Ashmore concentrates on an area in which reflexive "problems" are acute: the sociology of scientific knowledge. Cloth \$29.95 328 pages

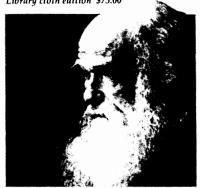
THE RISE OF THE WAVE THEORY OF LIGHT

Optical Theory and Experiment in the Early Nineteenth Century

Jed Z. Buchwald

Buchwald presents a new history of the fundamental changes that took place in optical theory at the beginning of the nineteenth century. Revising standard interpretations, Buchwald argues that the wave theory became coherent and was entirely revived only in the work of French physicist Augustin Fresnel.

Paper \$24.95 498 pages 116 line drawings Library cloth edition \$75.00



Now in Paper

DARWIN AND THE EMERGENCE OF **EVOLUTIONARY** THEORIES OF MIND AND BEHAVIOR

Robert J. Richards

"Richards's book is now the obvious introduction to the history of ideas about mind and behavior in the nineteenth century."—Mark Ridley, Times Literary Supplement

Paper \$17.95 718 pages 38 halftones



Harvard

BRAINSTORMING

The Science and Politics of Opiate Research Solomon H. Snyder, M.D.



In this very human chronicle, Solomon Snyder recounts the political maneuverings and scientific sleuthing that led him and Candace Pert—then a graduate student in his lab—to a critical breakthrough in our understanding of addiction—the opiate receptor.
6 halftones, 12 line illus.
\$22.50 cloth

RACIAL HYGIENE

Medicine under the Nazis Robert N. Proctor

"Proctor's carefully argued book not only forces us to reassess the dynamics of Nazism but also challenges pervasive notions about the political neutrality and objective value of science and the moral innocence of scientists...[A] provocative study."

—Mary Nolan, New York Times Book Review \$14.95 paper

THE MIND HAS NO SEX?

Women in the Origins of Modern Science

Londa Schiebinger

"Schiebinger's book is the most learned and sustained historical account of the role of science in the creation of gender that exists. It is a work of wide ranging and scrupulous scholarship that brings to light lives which would otherwise remain forgotten." —Thomas W. Laqueur \$29.50 cloth

DISCOVERING

Robert Scott Root-Bernstein
Great science: how is it done? Who
taught our most brilliant discoverers,
and can future problem solvers learn
to think as creatively? A fictional
symposium of six friends pursues
such core questions in this MacArthur
Prize-scholar's novel approach to the
science of science.

"In this important, original work, Dr. Root-Bernstein challenges us to reexamine our assumptions about how new scientific ideas emerge and evolve, and how we can best foster this process. This book should be read by apprentice and administrator alike."—Jonas Salk 26 halftones, 56 line illus. \$35.00 cloth

Harvard University Press

79 Garden St., Cambridge, MA 02138

PROCEEDINGS OF THE BIENNIAL MEETINGS OF THE PHILOSOPHY OF SCIENCE ASSOCIATION	
1.	PSA 1976, Volume 1 (xxiv + 312 pp.) Edited by Frederick Suppe & Peter D. Asquith ISBN 0-917586-02-6
2.	PSA 1976, Volume 2 (x + 618 pp.) Edited by Frederick Suppe & Peter D. Asquith ISBN 0-917586-03-4
3.	PSA 1978, Volume 1 (xxvi + 314 pp.) Edited by Peter D. Asquith & lan Hacking ISBN 0-917586-06-9
4.	PSA 1978, Volume 2 (x + 478 pp.) Edited by Peter D. Asquith & Ian Hacking ISBN 0-917586-10-7
5.	PSA 1980, Volume 1 (xxvi + 370 pp.) Edited by Peter D. Asquith & Ronald N. Giere ISBN 0-917586-14-X
6.	PSA 1980, Volume 2 (xviii + 678 pp.) Edited by Peter D. Asquith & Ronald N. Giere ISBN 0-917586-16-6
7.	PSA 1982, Volume 1 (xxvi + 414 pp.) Edited by Peter D. Asquith & Thomas Nickles ISBN 0-917586-18-2
8.	PSA 1982, Volume 2 (xxiv & 730 pp.) Edited by Peter D. Asquith & Thomas Nickles ISBN 0-917586-19-0
9.	PSA 1984, Volume 1 (xxii & 223 pp.) Edited by Peter D. Asquith & Philip Kitcher ISBN 0-917586-21-2
10.	PSA 1984, Volume 2 (xxiv + 903 pp.) Edited by Peter D. Asquith & Philip Kitcher ISBN 0-917586-24-7
11.	PSA 1986, Volume 1 (xxiv + 521 pp.) Edited by Arthur I. Fine & Peter K. Machamer ISBN 0-917586-23-9
12.	PSA 1986, Volume 2 (xxviii + 383 pp.) Edited by Arthur I. Fine & Peter K. Machamer ISBN 0-917586-25-5
13.	PSA 1988, Volume 1 (xxvi + 344 pp.) Edited by Arthur Fine & Jarrett Leplin ISBN 0-917586-27-1
14.	PSA 1988, Volume 2 (xviii + 517 pp.) Edited by Arthur Fine & Jarrett Leplin ISBN 0-917586-28-X
Prepaid orders are sent postage free. Checks in U.S. Dollars only should be made payable to the Philosophy of Science Association. Order from:	
0,0	Philosophy of Science Association 18 Morrill Hall/Department of Philosophy Michigan State University East Lansing, MI 48824-1036 Telephone (517) 353-9392

PHILOSOPHY OF SCIENCE

VOLUME LVI

