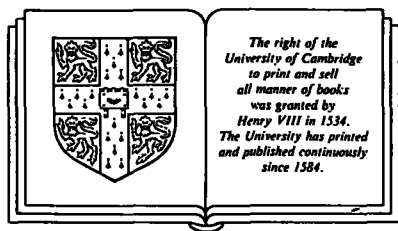


ROMANTICISM AND THE SCIENCES

edited by

ANDREW CUNNINGHAM *and* NICHOLAS JARDINE



CAMBRIDGE UNIVERSITY PRESS

Cambridge

New York Port Chester Melbourne Sydney

Contents

<i>List of illustrations</i>	page	x
<i>Notes on contributors</i>		xiii
<i>Preface</i>		xix
<i>Short list of introductory reading in English</i>		xxi

<i>Introduction: The age of reflexion</i>		
THE EDITORS		1

I ROMANTICISM

1	Romanticism and the sciences DAVID KNIGHT	13
2	Schelling and the origins of his <i>Naturphilosophie</i> S. R. MORGAN	25
3	Romantic philosophy and the organization of the disciplines: the founding of the Humboldt University of Berlin ELINOR S. SHAFFER	38
4	Historical consciousness in the German Romantic <i>Naturforschung</i> DIETRICH VON ENGELHARDT (translated by Christine Salazar)	55
5	Theology and the sciences in the German Romantic period FREDERICK GREGORY	69
6	Genius in Romantic natural philosophy SIMON SCHAFFER	82

II SCIENCES OF THE ORGANIC

- 7 Doctors *contra* clysters and feudalism: the consequences of a Romantic revolution
NELLY TSOUYOPOULOS 101
- 8 Morphotypes and the historical-genetic method in Romantic biology
TIMOTHY LENOIR 119
- 9 'Metaphorical mystifications': the Romantic gestation of nature in British biology
EVELLEEN RICHARDS 130
- 10 Transcendental anatomy
PHILIP F. REHBOCK 144
- 11 Romantic thought and the origins of cell theory
L. S. JACYNA 161
- 12 Alexander von Humboldt and the geography of vegetation
MALCOLM NICOLSON 169

III SCIENCES OF THE INORGANIC

- 13 Goethe, colour and the science of seeing
DENNIS L. SEPPER 189
- 14 Johann Wilhelm Ritter: Romantic physics in Germany
WALTER D. WETZELS 199
- 15 The power and the glory: Humphry Davy and Romanticism
CHRISTOPHER LAWRENCE 213
- 16 Oersted's discovery of electromagnetism
H. A. M. SNELDERS 228
- 17 Caves, fossils and the history of the earth
NICHOLAS A. RUPKE 241

IV LITERATURE AND THE SCIENCES

- 18 Goethe's use of chemical theory in his *Elective Affinities*
JEREMY ADLER 263

19	Kleist's Bedlam: abnormal psychology and psychiatry in the works of Heinrich von Kleist NIGEL REEVES	280
20	Coleridge and the sciences TREVOR H. LEVERE	295
21	Nature's book: the language of science in the American Renaissance DAVID VAN LEER	307
22	The shattered whole: Georg Büchner and <i>Naturphilosophie</i> JOHN REDDICK	322
	<i>Index of names</i>	341