

TABLE OF CONTENTS

PART I

| | |
|---|-----|
| Preface | ix |
| <i>Methodological Issues in the Historiography of Science</i> | |
| RICHARD S. WESTFALL / Charting the Scientific Community | 1 |
| STILLMAN DRAKE / Theory and Practice in Early Modern Physics | 15 |
| IAN HACKING / Styles of Scientific Thinking or Reasoning: A New Analytical Tool for Historians and Philosophers of the Sciences | 31 |
| JED Z. BUCHWALD / Kinds and (In)commensurability | 49 |
| KOSTAS GAVROGLU / Types of Discourse and the Reading of the History of the Physical Sciences | 65 |
| ERWIN N. HIEBERT / On Demarcations between Science in Context and the Context of Science | 87 |
| ARISTIDES BALTAS / On the Harmful Effects of Excessive Anti-Whiggism | 107 |
| DIMITRIOS DIALETIS and EFTHYMIOS NICOLAIDIS / Issues in the Historiography of Post-Byzantine Science | 121 |
| VYACHESLAV S. STEPIN / Social Environment, Foundations of Science, and the Possible Histories of Science | 129 |
| JOHN STACHEL / Scientific Discoveries as Historical Artifacts | 139 |
| PETER MACHAMER / Selection, System and Historiography | 149 |
| YORGOS GOUDAROULIS / Can the History of Instrumentation Tell Us Anything about Scientific Practice? | 161 |

| | |
|---|-----|
| DIONYSIOS A. ANAPOLITANOS and APOSTOLOS K. DEMIS / The One in the Philosophy of Proclus: Logic versus Metaphysics | 169 |
| THEODORE ARABATZIS / Rational versus Sociological Reductionism: Imre Lakatos and the Edinburgh School | 177 |
| ELENA A. MAMCHUR / Sociocultural Factors and the Historiography of Science | 193 |

PART II

Historiography of Mathematics

| | |
|--|-----|
| SABETAI UNGURU / Is Mathematics Ahistorical? An Attempt to an Answer Motivated by Greek Mathematics | 203 |
| DAVID H. FOWLER / The Story of the Discovery of Incommensurability, Revisited | 221 |
| JEAN CHRISTIANIDIS / On the History of Indeterminate Problems of the First Degree in Greek Mathematics | 237 |
| IZABELLA G. BASHMAKOVA and IOANNIS M. VANDOULAKIS / On the Justification of the Method of Historical Interpretation | 249 |
| EBERHARD KNOBLOCH / The Infinite in Leibniz's Mathematics – The Historiographical Method of Comprehension in Context | 265 |
| CHRISTINE PHILI / John Landen: First Attempt for the Algebrization of the Infinitesimal Calculus | 279 |
| MICHAEL OTTE / Historiographical Trends in the Social History of Mathematics and Science | 295 |
| VASSILI Y. PERMINOV / The Conception of the Scientific Research Programs and the Real History of Mathematics | 317 |

PART III

Historiography of the Sciences

| | |
|---|-----|
| MICHAEL FORTUN and SYLVAN S. SCHWEBER / Scientists and the State: The Legacy of World War II | 327 |
| SKULI SIGURDSSON / Unification, Geometry and Ambivalence: Hilbert, Weyl and the Göttingen Community | 355 |
| ALEXANDER A. PECHENKIN / The Two-Dimensional View of the History of Chemistry | 369 |
| ANNA KOSTOULA / The Problem of Method in the Study of the Influence a Philosophy Has on Scientific Practice. The Case of Thermoelectricity | 379 |
| STUART WALKER STRICKLAND / Reopening the Texts of Romantic Science: The Language of Experience in J. W. Ritter's <i>Beweis</i> | 385 |
| YIORGOS N. VLAHAKIS / Problems and Methodology of Exploring the Scientific Thought during the Greek Enlightenment (1750–1821) | 397 |
| MICHEL BLAY / History of Science and History of Mathematization: The Example the Science of Motion at the Turn of the 17th and 18th Centuries | 405 |
| PIAMA GAIDENKO / The Artistic Culture of the Renaissance and the Genesis of Modern European Science | 421 |
| MARIA K. PAPATHANASSIOU / Archaeoastronomy in Greece: Data, Problems and Perspectives | 433 |
| Index of Names | 445 |