

## TABLE OF CONTENTS

PREFACE / Robert S. Cohen	ix
INTRODUCTION / Dimitri Ginev	xiii
JOSEPH AGASSI / Who Needs Aristotle?	1
EVANDRO AGAZZI / Naive Realism and Naive Antirealism	13
BABETTE E. BABICH / Against Postmodernism and the “New” Philosophy of Science: Nietzsche’s Image of Science in the Light of Art	27
EFTICHIOS BITSAKIS / On the Validity of von Neumann’s Theorem	47
RONALD N. GIERE / Explaining Scientific Revolutions	63
DIMITRI GINEV / Micro- and Macro-Hermeneutics of Science	87
ROM HARRÉ / The Redundancy of Spacetime: Special Relativity as a Grammar and the Strangeness of ‘c’	95
PATRICK A. HEELAN / Context, Hermeneutics, and Ontology in the Experimental Sciences	107
WILLIAM. E. HERFEL AND CLIFFORD A. HOOKER / Cognitive Dynamics and the Development of Science	127
PETER JANICH / Methodical Constructivism	173
JOSEPH J. KOCKELMANS / Hermeneutic vs. Empiricist Philosophy of Science	191
WŁADYSŁAW KRAJEWSKI / Must the Explanans be True?	217
DAVID LAMB / Communication with Extraterrestrial Intelligence: SETI and Scientific Methodology	223
RAMÓN QUERALTÓ / Since Indeterminacy: The New Picture of the Physical World at the End of Modernity	253
FRIEDRICH RAPP / The Dynamics of Science	263
NICHOLAS RESCHER / The Law of Logarithmic Returns and Its Implications	275

HANS JÖRG SANDKÜHLER / The Human Right to Know and the Reality of Knowledge	289
HOWARD SANKEY / Kuhn's Ontological Relativism	305
ERHARD SCHEIBE / The Problem of Reduction in the Theory of Special Relativity	321
MANFRED STOECKLER / Symmetries and Explanations: The Lessons of Elementary Particle Physics	343
LADISLAV TONDL / Cognition as a System	357
A. I. UYEMOV / System Approach to the Problem of the Classification of Sciences and Scientific Researches	377
APPENDIX / Azarya Polikarov: Selected Books and Articles	391
NAME INDEX	397