TABLE OF CONTENTS

EDITORIAL PREFACE vii

ACKNOWLEDGEMENTS xi

INTRODUCTION xiii

1. The Model Muddle: Proposals for an Immodest Realism (1966) 1
2. Reduction, Explanation and Ontology (1962) 12
3. Models, Metaphysics and the Vagaries of Empiricism (1965) 24
4. Metaphysics as Heuristic for Science (1965) 40
5. Matter, Action and Interaction (1973) 90
6. Towards a Critical Materialism (1971) 104
7. The Relation Between Philosophy of Science and History of Science (1977) 119
8. Telos and Technique: Models as Modes of Action (1968) 140
9. From Praxis to Logos: Genetic Epistemology and Physics (1971) 154
10. Pictures, Representation, and the Understanding (1972) 175
11. Perception, Representation, and the Forms of Action: Towards an Historical Epistemology (1973) 188
12. Rules and Representation: The Virtues of Constancy and Fidelity Put in Perspective (1978) 211
13. Action and Passion: Spinoza's Construction of a Scientific Psychology (1973) 231

14. Nature, Number and Individuals: Motive and Method in Spinoza's Philosophy (1978) 255

15. Hume's Concept of Identity and the *Principium Individuationis* (1961) 277

16. Diderot and the Development of Materialist Monism (1953) 297

17. Art and Technology: Conflicting Models of Education? The Uses of a Cultural Myth (1973) 338

18. Art as Humanizing Praxis (1976) 357

NAME INDEX 371

SUBJECT INDEX 375