

# Contents

|  |    |
|--|----|
| Introduction   | 1  |
| Paul Horwich   |    |
| Thomas Kuhn, Colleague and Friend                                  | 7  |
| Carl G. Hempel   |    |
| <b>THE PHILOSOPHERS LOOK BACK</b>                                  |    |
| Carnap, Kuhn, and the Philosophy of Scientific<br>Methodology      | 9  |
| John Earman  |    |
| Remarks on the History of Science and the History of<br>Philosophy | 37 |
| Michael Friedman   |    |
| Rationality and Paradigm Change in Science                         | 55 |
| Ernan McMullin   |    |
| <b>THE HISTORIANS LOOK</b>   |    |
| A Mathematicians' Mutiny, with Morals                              | 81 |
| J. L. Heilbron   |    |

|  |     |
|--|-----|
| Science and Humanism in the Renaissance:<br>Regiomontanus's Oration on the Dignity and Utility of<br>the Mathematical Sciences | 131 |
| N. M. Swerdlow   |     |
| Design for Experimenting   | 169 |
| Jed Z. Buchwald  |     |
| Mediations: Enlightenment Balancing Acts, or the<br>Technologies of Rationalism  | 207 |
| M. Norton Wise   |     |
| <b>THE PHILOSOPHERS LOOK AHEAD</b>   |     |
| How We Relate Theory to Observation  | 259 |
| Nancy Cartwright   |     |
| Working in a New World: The Taxonomic Solution   | 275 |
| Ian Hacking  |     |
| Afterwords   | 311 |
| Thomas S. Kuhn   |     |
| Contributors   | 343 |
| Index  | 347 |