

Contents

Preface, vii
Mach Family Genealogy, xv
Chronology, xvii
Abbreviations, xix

PART I (1838-1895)

1. Childhood, 3
2. Young Scientist, 13
3. Philosophical Development, 26
4. Prague Professor, 38
5. Psychology, 47
6. Mach's Two Rectorates, 73
7. Theoretical Physics, 84
8. Mach Shock Waves, 105
9. Early Philosophical Influence, 116
10. Educational Theory and Textbooks, 132

PART II (1895-1916)

11. Return to Vienna, 145
12. Philosophy of Science, 164
13. World Influence: Philosophy, 180

Contents

14. Mach *vs.* Boltzmann, Planck, Stumpf, and Külpe, 204
15. Politics, Russia, and Vladimir Lenin, 232
16. Mach and Einstein, 247
17. Did Mach Finally Accept Einstein's Theory
of Relativity?, 260
18. Mach and Buddhism, 286
19. Mach's Influence on Early Logical Positivism and on
Quantum Theory, 300

Appendix: Did Mach Finally Accept
the Reality of Atoms?, 319

Notes, 325

A Select Bibliography, 361

Index, 377