

# CONTENTS

*Preface* vii

## PART 1. THE DEBATE

- CHAPTER 1** Untimely 3
- CHAPTER 2** “More Einsteinian than Einstein” 16
- CHAPTER 3** Science or Philosophy? 38

## PART 2. THE MEN

- CHAPTER 4** The Twin Paradox 53
- CHAPTER 5** Bergson’s Achilles’ Heel 62
- CHAPTER 6** Worth Mentioning? 73
- CHAPTER 7** Bergson Writes to Lorentz 87
- CHAPTER 8** Bergson Meets Michelson 98
- CHAPTER 9** The Debate Spreads 114
- CHAPTER 10** Back from Paris 131
- CHAPTER 11** Two Months Later 139
- CHAPTER 12** Logical Positivism 153
- CHAPTER 13** The Immediate Aftermath 162
- CHAPTER 14** An Imaginary Dialogue 172
- CHAPTER 15** “Full-Blooded” Time 179
- CHAPTER 16** The Previous Spring 195
- CHAPTER 17** The Church 203

**CHAPTER 18** The End of Universal Time 218

**CHAPTER 19** Quantum Mechanics 230

### PART 3.

**CHAPTER 20** Things 241

**CHAPTER 21** Clocks and Wristwatches 252

**CHAPTER 22** Telegraph, Telephone, and Radio 265

**CHAPTER 23** Atoms and Molecules 274

**CHAPTER 24** Einstein's Films: Reversible 283

**CHAPTER 25** Bergson's Movies: Out of Control 292

**CHAPTER 26** Microbes and Ghosts 303

**CHAPTER 27** One New Point: Recording Devices 315

### PART 4. THE WORDS

**CHAPTER 28** Bergson's Last Comments 327

**CHAPTER 29** Einstein's Last Thoughts 337

*Postface* 349

*Acknowledgments* 359

*Notes* 363

*Bibliography* 423

*Index* 451