

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

VI CONTENTS

CHAPTER 18 The End of Universal Time 218

CHAPTER 19 Quantum Mechanics 230

PART 3. THE THINGS

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