

# Contents

Preface	v
List of Contributors	xi
List of Illustrations	xiii
Acknowledgements	xvii
Chronological Biography	xix

## Part I REMINISCENCES

Albert Einstein 1879–1955 <i>C. P. Snow</i>	3
Excerpts from a memoir <i>Maurice Solovine</i>	9
Einstein’s friendship with Michele Besso <i>P. Speziali</i>	13
My meeting with Einstein at the Solvay Conference of 1927 <i>Louis de Broglie</i>	14
Reminiscences of Einstein <i>L. L. Whyte</i>	18
Memoir <i>John Archibald Wheeler</i>	21
Anecdotes <i>Philipp Frank</i>	23
Memoir <i>Edward Teller</i>	24
Einstein <i>Philippe Halsman</i>	27
Reminiscence <i>George Gamow</i>	29
Memoir <i>Ernst G. Straus</i>	31

## Contents

---

Memoir <i>Eugene P. Wigner</i>	33
An Einstein anecdote <i>John G. Kemeny</i>	34
Einstein, Newton, and success <i>A. Pais</i>	35
Conversations with Albert Einstein <i>Robert S. Shankland</i>	38
Einstein and Newton <i>I. Bernard Cohen</i>	40
A tribute <i>Pablo Casals</i>	43
On Albert Einstein <i>J. Robert Oppenheimer</i>	44

## Part II EINSTEIN AND HIS WORK

1 Einstein—A condensed biography	53
2 Einstein and the birth of special relativity <i>Silvio Bergia</i>	65
3 The story of general relativity <i>A. P. French</i>	91
4 Relativity theory and gravitation <i>Hermann Bondi</i>	113
The equivalence principle demonstrated	
The problem <i>Eric M. Rogers</i>	131
The solution <i>I. Bernard Cohen</i>	132
5 Einstein and the development of quantum physics <i>Martin J. Klein</i>	133
6 ‘What, precisely, is “thinking”?’ Einstein’s answer <i>Gerald Holton</i>	153
7 Einstein, science and culture <i>Boris Kuznetsov</i>	167

## Contents

---

8 Einstein and world affairs <i>A. P. French</i>	185
9 Einstein and Zionism <i>Gerald E. Tauber</i>	199
10 Einstein and the academic establishment <i>Martin J. Klein</i>	209
11 Einstein and education <i>Arturo Loria</i>	215
12 Philosophical concepts of space and time <i>Herbert Hörz</i>	229
Einstein on postage stamps <i>E. J. Burge</i>	243
13 Approaches to the teaching of special relativity <i>Geoffrey Dorling</i>	245

### Part III EINSTEIN'S LETTERS

Einstein writes to his best friend <i>P. Speziali</i>	263
Letter to Maurice Solovine, 7 May 1952	271
Exchange of letters with Niels Bohr	273
Letters to Max Born	275

### Part IV EINSTEIN'S WRITINGS

On the electrodynamics of moving bodies	281
Geometry and experience	294
The cause of the formation of meanders in the courses of rivers and the so-called Baer's Law	298
Excerpts from <i>Ideas and Opinions</i>	302
Notes on the origin of the general theory of relativity	306
On the method of theoretical physics	310
On education	315

## Contents

---

An elementary derivation of the equivalence of mass and energy	319
Short Bibliography	323
Index	325