

CONTENTS

<i>List of contributors</i>	viii
Thought experiments: state of the art MICHAEL T. STUART, YIFTACH FEHIGE AND JAMES ROBERT BROWN	1
PART I	
Selected history of thought experiments	29
1 The triple life of ancient thought experiments KATERINA IERODIAKONOU	31
2 Thought experiments in Plato ALEXANDER BECKER	44
3 Aristotle and thought experiments KLAUS CORCILIUS	57
4 Experimental thoughts on thought experiments in medieval Islam JON MCGINNIS	77
5 Galileo's thought experiments: projective participation and the integration of paradoxes PAOLO PALMIERI	92
6 Thought experiments in Newton and Leibniz RICHARD T. W. ARTHUR	111
7 Thought experiments, epistemology and our cognitive (in)capacities KENNETH R. WESTPHAL	128

PART II	
Thought experiments and their fields	151
8 Thought experiments in political philosophy NENAD MIŠČEVIĆ	153
9 Thought experiments in economics MARGARET SCHABAS	171
10 Theology and thought experiments YIFTACH FEHIGE	183
11 Thought experiments in ethics GEORG BRUN	195
12 Happiest thoughts: great thought experiments of modern physics KENT A. PEACOCK	211
13 Thought experiments in biology GUILLAUME SCHLAEPFER AND MARCEL WEBER	243
14 Thought experiments in mathematics IRINA STARIKOVA AND MARCUS GIAQUINTO	257
PART III	
Contemporary philosophical approaches to thought experiments	279
15 The argument view: are thought experiments mere picturesque arguments? ELKE BRENDEL	281
16 Platonism and the a priori in thought experiments THOMAS GRUNDMANN	293
17 Cognitive science, mental modeling, and thought experiments NANCY J. NERSESSIAN	309
18 Kantian accounts of thought experiments MARCO BUZZONI	327
19 Phenomenology and thought experiments: thought experiments as anticipation pumps HARALD A. WILTSCHE	342

PART IV	
Issues, challenges and interactions	367
20 Intuition and its critics	369
STEPHEN STICH AND KEVIN TOBIA	
21 Thought experiments and experimental philosophy	385
KIRK LUDWIG	
22 Thought experiments in current metaphilosophical debates	406
DANIEL COHNITZ AND SÖREN HÄGGQVIST	
23 Historicism and cross-culture comparison	425
JAMES W. McALLISTER	
24 A dialectical account of thought experiments	439
JEAN-YVES GOFFI AND SOPHIE ROUX	
25 The worst thought experiment	454
JOHN D. NORTON	
26 Thought experiments and idealizations	469
JULIAN REISS	
27 Thought experiments and simulation experiments: exploring hypothetical worlds	484
JOHANNES LENHARD	
28 Images and imagination in thought experiments	498
LETITIA MEYNELL	
29 Art and thought experiments	512
DAVID DAVIES	
30 How thought experiments increase understanding	526
MICHAEL T. STUART	
31 On the identity of thought experiments: thought experiments rethought	545
ALISA BOKULICH AND MÉLANIE FRAPPIER	
<i>Index of thought experiments discussed, mentioned or invented in this companion</i>	558
<i>Author–subject index</i>	561