

Contents

Preface	vii
1 Introduction	1
1.1 Experiments in Economics	1
1.2 Does Economics Need Experiments?	4
1.3 The Practice of Experimental Economics	11
1.4 The Illustrations and the Structure of the Book	23
1.5 Methods, Methodology, and Philosophy of Science	36
2 Theory Testing and the Domain of Economic Theory	46
2.1 Domain Restrictions: Economic Theory and the Laboratory	46
2.2 Generality and External Validity	49
2.3 The Blame-the-Theory Argument	54
2.4 The Concept of Domain	56
2.5 The Laboratory and the Three Senses of Domain	64
2.6 Application to Experimental Tests of Choice Theory	71
2.7 Application to Experimental Tests of Equilibrium Predictions	85
2.8 Conclusions	92
3 Experimental Testing in Practice	95
3.1 Preliminaries	95
3.2 Experimental Testing and the Duhem-Quine Thesis	95
3.3 On the Significance of the DQT for Testing	106
3.4 On Testing Game Theory	114
3.5 Hard Cores, Progress, and Experiments	128
3.6 Conclusion	138
4 Experiments and Inductive Generalization	141
4.1 Preliminaries	141
4.2 Deduction versus Induction	142
4.3 How Inductive Investigation Works	145
4.4 Experiments as Tests	150
4.5 Exhibits	156
4.6 Why Be Interested in Exhibits?	160
4.7 Do Exhibits Need to Be Explained?	166
4.8 Multiple Causation	169

4.9	Explaining Exhibits Inductively	172
4.10	Investigating Exhibits without Trying to Explain Them	184
4.11	Experiments as Models	189
4.12	Conclusion	194
5	External Validity	196
5.1	Introduction	196
5.2	Are Economics Experiments Models?	197
5.3	Tests of Applied Economics Theories	204
5.4	Types of Artificiality Criticism	214
5.5	Alteration Contrasted with Omission and Contamination	228
5.6	Evaluating Alteration Criticisms	233
5.7	Field Experiments	237
5.8	Conclusions	242
6	Incentives in Experiments	244
6.1	Preliminaries	244
6.2	Incentives, Design, and Control	246
6.3	Incentives in Experimental Economics: Convention in Action	248
6.4	Three Perspectives on the Effect of Incentives on Behavior	250
6.5	Incentive Mechanisms	264
6.6	Conclusion	284
7	Noise and Variability in Experimental Data	286
7.1	"Noise" in Economics and in Experimental Economics	286
7.2	"Noise" in Individual Decision Experiments	289
7.3	"Noise" in Experimental Games	306
7.4	Exploring Different Stochastic Specifications	322
7.5	Concluding Remarks	329
8	Conclusion	331
8.1	How Successful Has Experimental Economics Been in Developing a Sound Methodology?	332
8.2	How Successful Has Experimental Economics Been in Increasing Understanding of Economic Behavior?	338
8.3	Has Experimental Economics Had a Positive Impact on Wider Economics?	342
	References	347
	Index	369