

Contents

1 Agency and Interaction What We Are and What We Do in Formal Epistemology	1
Jeffrey Helzner and Vincent F. Hendricks	
Part I Bayesian Epistemology	
2 Introduction	15
Horacio Arló-Costa, Vincent F. Hendricks, and Johan van Benthem	
3 Truth and Probability	21
Frank P. Ramsey	
4 Probable Knowledge	47
Richard C. Jeffrey	
5 Fine-Grained Opinion, Probability, and the Logic of Full Belief	67
Bas C. van Fraassen	
6 A Theory of Higher Order Probabilities	91
Haim Gaifman	
7 On Indeterminate Probabilities	107
Isaac Levi	
8 Why I am not a Bayesian	131
Clark Glymour	
9 Discussion: A Mistake in Dynamic Coherence Arguments?	153
Brian Skyrms	
10 Some Problems for Conditionalization and Reflection	163
Frank Arntzenius	
11 Stopping to Reflect	177
Mark J. Schervish, Teddy Seidenfeld, and Joseph B. Kadane	

Part II Belief Change

12 Introduction	189
Horacio Arló-Costa, Vincent F. Hendricks, and Johan van Benthem	
13 On the Logic of Theory Change: Partial Meet Contraction and Revision Functions	195
Carlos E. Alchourrón, Peter Gärdenfors, and David Makinson	
14 Theory Contraction and Base Contraction Unified	219
Sven Ove Hansson	
15 How Infallible but Corrigible Full Belief Is Possible	247
Isaac Levi	
16 Belief Contraction in the Context of the General Theory of Rational Choice	269
Hans Rott	
17 A Survey of Ranking Theory	303
Wolfgang Spohn	

Part III Decision Theory

18 Introduction	351
Horacio Arló-Costa, Vincent F. Hendricks, and Johan van Benthem	
19 Allais's Paradox	357
Leonard Savage	
20 Decision Theory Without "Independence" or Without "Ordering" ..	361
Teddy Seidenfeld	
21 Ambiguity and the Bayesian Paradigm	385
Itzhak Gilboa and Massimo Marinacci	
22 State-Dependent Utilities	441
Mark J. Schervish, Teddy Seidenfeld, and Joseph B. Kadane	
23 Causal Decision Theory	457
James M. Joyce and Allan Gibbard	
24 Advances in Prospect Theory: Cumulative Representation of Uncertainty	493
Amos Tversky and Daniel Kahneman	

Part IV Logics of Knowledge and Belief

25 Introduction	523
Horacio Arló-Costa, Vincent F. Hendricks, and Johan van Benthem	
26 Epistemology Without Knowledge and Without Belief	527
Jaakko Hintikka	
27 Epistemic Operators	553
Fred I. Dretske	
28 Elusive Knowledge	567
David Lewis	
29 Knowledge and Scepticism	587
Robert Nozick	
30 On Logics of Knowledge and Belief	605
Robert Stalnaker	
31 Sentences, Belief and Logical Omniscience, or What Does Deduction Tell Us?	627
Rohit Parikh	
32 The Logic of Justification	649
Sergei Artemov	
33 Learning Theory and Epistemology	695
Kevin T. Kelly	
34 Some Computational Constraints in Epistemic Logic	717
Timothy Williamson	

Part V Interactive Epistemology

35 Introduction	737
Horacio Arló-Costa, Vincent F. Hendricks, and Johan van Benthem	
36 Convention (An Excerpt on Coordination and Higher-Order Expectations)	741
David Lewis	
37 Three Views of Common Knowledge	759
Jon Barwise	
38 The Logic of Public Announcements, Common Knowledge, and Private Suspicions	773
Alexandru Baltag, Lawrence S. Moss, and Sławomir Solecki	

39	A Qualitative Theory of Dynamic Interactive Belief Revision	813
	Alexandru Baltag and Sonja Smets	
40	Agreeing to Disagree	859
	Robert J. Aumann	
41	Epistemic Conditions for Nash Equilibrium	863
	Robert J. Aumann and Adam Brandenburger	
42	Knowledge, Belief and Counterfactual Reasoning in Games	895
	Robert Stalnaker	
43	Substantive Rationality and Backward Induction	923
	Joseph Y. Halpern	
	Index	933