

# Contents

Introduction	vii
<b>1 Acceptance as a Basis for Induction</b>	
§1. ISAAC LEVI. Potential Surprise: its Role in Inference and Decision-Making.	1
§2. PAUL TELLER. Zealous Acceptance.	28
§3. Comments and Replies (H. E. KYBURG, R. G. SWINBURNE, L. J. COHEN, I. LEVI).	54
<b>2 Induction as Information Acquisition</b>	
§4. ROBERT D. ROSENKRANTZ. Rational Information Acquisition.	68
§5. HENRY E. KYBURG. Inductive Logic and Experimental Design.	90
§6. Comments and Replies (J. DORLING, R. G. SWINBURNE, R. D. ROSENKRANTZ).	102
<b>3 Falsificationism versus Inductivism</b>	
§7. DAVID MILLER. Can Science do without Induction?	109
§8. KEITH LEHRER. Truth, Evidence, and Error.	130
§9. Comments and Replies (E. AGAZZI, B. MELTZER, H. E. KYBURG, T. KUIPERS, W. NEWTON-SMITH, D. W. MILLER).	143
<b>4 Application Conditions for Eliminative Induction</b>	
§10. L. JONATHAN COHEN. What has Inductive Logic to do with Causality?	156
§11. ARTHUR W. BURKS. Enumerative Induction versus Eliminative Induction.	172
§12. Comments and Replies (S. BLACKBURN, R. HILPINEN, A. MARGALIT, J. L. MACKIE, L. J. COHEN).	190
<b>5 Inductive Appraisal of Scientific Theories</b>	
§13. MARY HESSE. What is the Best Way to Assess Evidential Support for Scientific Theories?	202
§14. ILKKA NIINILUOTO. Analogy, Transitivity, and the Confirmation of Theories.	218
§15. Comments and Replies (D. BLOOR, J. DORLING, T. KUIPERS, L. J. COHEN, M. HESSE).	235
<b>6 Statistical Hypotheses</b>	
§16. RONALD N. GIERE. Causal Systems and Statistical Hypotheses.	251

§17. JON DORLING. A Personalist's Analysis of Statistical Hypotheses and Some Other Rejoinders to Giere's Anti-Positivist Metaphysics.	271
§18. Comments and Replies (E. AGAZZI, A. MARGALIT, I. LEVI, H. E. KYBURG, R. N. GIERE).	282
<b>7 Properties and Inductive Projectibility</b>	
§19. SYDNEY S. SHOEMAKER. Properties, Causation, and Projectibility.	291
§20. RICHARD G. SWINBURNE. Properties, Causation, and Projectibility: Reply to Shoemaker	313
§21. Comments and Replies (J. L. MACKIE, S. SHOEMAKER, R. G. SWINBURNE, H. MELLOR, M. HESSE, A. MARGALIT).	321
<b>8 Computer Programs for Inductive Reasoning</b>	
§22. TERRY WINOGRAD. Extended Inference Modes in Reasoning by Computer Systems.	333
§23. MARGARET A. BODEN. Real-World Reasoning.	359
§24. Comments and Replies (H. E. KYBURG, L. J. COHEN, T. WINOGRAD).	376
<b>9 The Evaluation of Rival Inductive Logics</b>	
§25. JONATHAN E. ADLER. Criteria for a Good Inductive Logic.	379
§26. RADU J. BOGDAN. Two Turns in Induction.	406
§27. Comments and Replies (I. LEVI, R. D. ROSENKRANTZ, J. E. ADLER).	416
List of Participants	424
Index	426