

# CONTENTS

PREFACE page ix

REFERENCES xiii

## I THE PHILOSOPHICAL PROBLEM OF INDUCTIVE PROBABILITY

1.1	Attribute-inductions, Variable-inductions and Evidential-statements	1
1.1.1	<i>The Meaning of 'Induction'</i>	1
1.1.2	<i>Attribute-inductions and Variable-inductions</i>	12
1.1.3	<i>Types of Inductions</i>	15
1.1.4	<i>Attribute-inductions and Variable-inductions (concluded)</i>	25
1.2	Probability-judgements, Probabilification-judgements and Evidential-evaluations	27
1.2.1	<i>The Evaluative Meaning of 'Probable'</i>	29
1.2.2	<i>The Descriptive Meaning of 'Probable'</i>	39
1.2.3	<i>Solution of some Crucial Questions in the Philosophy of Probability</i>	44
1.2.4	<i>Hypothetic Inference and Hypothetic Probability</i>	52
1.2.5	<i>The Plan of the Rest of the Book</i>	80

## 2 SUBJECT-PREDICATE INDUCTIVE PROBABILIFICATION-JUDGEMENT-FORMULAS

2.1	Primitive Formulas	83
2.1.1	<i>Operations Subsidiary to Induction, and the Primacy of Primitive Formulas</i>	83
2.1.2	<i>Universal Formulas</i>	90
2.1.3	<i>Proportional Formulas</i>	98
2.1.4	<i>Statistical Laws, and Statistical Theory</i>	103
2.2	Derivative Formulas	106
2.2.1	<i>Deductive Derivative Formulas</i>	106
2.2.2	<i>Non-deductive Derivative Formulas, and Casual Probability</i>	115
2.2.3	<i>Some Accounts of Casual Probability and Related Concepts</i>	122

## CONTENTS

3	FUNCTIONAL INDUCTIVE PROBABILIFICATION- JUDGEMENT-FORMULAS	
3.1	Primitive Formulas	142
3.2	Derivative Formulas	149
4	OTHER ALLEGED DETERMINANTS OF INDUCTIVE PROBABILITY	
4.1	Suggested Additional Criteria	159
4.1.1	<i>Criteria for Subject-predicate Formulas</i>	159
4.1.2	<i>Criteria for Functional Formulas</i>	176
4.2	Grounds and Principles of Induction	181
4.2.1	<i>Theories Designed to Prove Inductions True</i>	182
4.2.2	<i>Theories Designed to Prove Inductions Probable</i>	194
4.3	Successful and Reliable Modes of Ampliative In- ference	205
4.3.1	<i>Criticism of Two Theories</i>	205
4.3.2	<i>Successfulness, Reliability and Probability</i>	213
5	INDUCTIVE PROBABILIFICATION BY ELIMINATION	
5.1	Theories of Eliminative Induction	226
5.1.1	<i>The Elimination of Possible Conditions and of Possible Causes</i>	227
5.1.2	<i>The Elimination of Chance</i>	230
5.2	Restatement of the Theory of Inductive Probabilifica- tion by Elimination	242
5.2.1	<i>Completion of the Constructive Account of Inductive Probability</i>	242
5.2.2	<i>Probability and Truth</i>	256
5.2.3	<i>Probabilification, Verification and Significance</i>	266
5.2.4	<i>Inductive vs. Hypothetic Inference and Probability</i>	269
6	INDUCTIVE REASONING AND INDUCTIVE LOGIC	
6.1	Inductive Probabilification-judgement and Reasoning	278
6.1.1	<i>Positive Consideration of the Question</i>	278
6.1.2	<i>Criticism of some Other Views</i>	282
6.2	Inductive Philosophy and Logic	295
6.2.1	<i>Positive Consideration of the Question</i>	296
6.2.2	<i>Criticism of some Other Views</i>	307
6.2.3	<i>The Meaning of 'Evidence'</i>	311
6.2.4	<i>Criticism of some Other Views (concluded)</i>	316
	APPENDIX: TABLE OF FORMULAS	323
	INDEX	329