

# CONTENTS

Preface	iii	A Defense of the Principle of Contradiction	166
✓ <b>Part One. The Nature of Logic</b>		FRANCIS H. BRADLEY	
INTRODUCTION	1	A Defense of the Law of Excluded Middle	177
In Praise of Dialectic	5	BERTRAND RUSSELL	
PLATO	8	<b>Part Four. Symbolic Logic</b>	187
The Beginnings of Logic	19	INTRODUCTION	
ARISTOTLE	19	The Method of Mathematics	189
Logic and Philosophy	22	GOTTFRIED WILHELM LEIBNIZ	
BOETHIUS	22	A Logical Calculus	197
The Parts of Logic	25	GEORGE BOOLE	
PETER ABAILARD	25	A Formal System of Logic and Mathematics	205
Idols Which Beset Men's Minds	38	GOTTLÖB FREGE	
FRANCIS BACON	38	The Importance of Good Notation	211
The Formal Laws of Thought	43	ALFRED NORTH WHITEHEAD	
IMMANUEL KANT	43	The Study of Inference in General	214
Logic as Metaphysics	53	BERTRAND RUSSELL	
G. W. F. HEGEL	53	Mathematics and Logic	216
The Science of Evidence	62	BERTRAND RUSSELL	
JOHN STUART MILL	62	A Negative Appraisal by a Mathematician	224
The Fixation of Belief	73	HENRI POINCARÉ	
CHARLES SANDERS PEIRCE	73	A Negative Appraisal by an Idealist Logician	231
The Application of Intelligence	78	BENEDETTO CROCE	
JOHN DEWEY	78	<b>Part Five. Induction</b>	235
Logic as the Essence of Philosophy	93	INTRODUCTION	
BERTRAND RUSSELL	93	The Classical Conception of Science	237
<b>Part Two. The Syllogism</b>	95	ARISTOTLE	
INTRODUCTION	95	A Medieval Advocate of Experimental Science	243
Definition of the Syllogism	100	ROGER BACON	
ARISTOTLE	100	An Improved Method of Induction	248
Is the Syllogism A Petitio Principii	116	FRANCIS BACON	
JOHN STUART MILL	116	The Problem of Induction	259
A Mere Superstition	122	DAVID HUME	
FRANCIS H. BRADLEY	122	Induction as Hypothesis	270
What the Tortoise said to Achilles	125	WILLIAM WHEWELL	
LEWIS CARROLL	125	Inductive Grounds for Induction	275
Aristotle's Logic	131	JOHN STUART MILL	
BERTRAND RUSSELL	131	Criticism of Mill's Methods	287
✓ <b>Part Three. The Laws of Thought</b>	133	FRANCIS H. BRADLEY	
INTRODUCTION	133	The Doctrine of Necessity Examined	295
Proving the Laws of Thought	145	CHARLES SANDERS PEIRCE	
ARISTOTLE	145	The Principle of Induction	306
The Sea Fight Tomorrow	149	BERTRAND RUSSELL	
ARISTOTLE	149	Some Historical Notes on Induction	311
Refuting the Laws of Thought	155	JOHN MAYNARD KEYNES	
G. W. F. HEGEL	155		
The Negation of the Negation	163		
FRIEDRICH ENGELS	163		
Generalizations from Experience			
JOHN STUART MILL			