

Contents

Part 1 THE HISTORY OF LOGIC

<i>Introduction</i>	1
The Development of Symbolic Logic	
	C. I. LEWIS AND C. H. LANGFORD 3
The Place of Logic Among the Sciences	
	W. C. KNEALE AND M. H. KNEALE 21

Part 2 THE FORMAL APPROACH

<i>Introduction</i>	27
On Formalization	HAO WANG 29
On the Ontological Significance of the Löwenheim-Skolem Theorem	
	JOHN R. MYHILL 40
✓ Gödel's Proof	ERNEST NAGEL AND JAMES R. NEWMAN 51

Part 3 MEANING AND REFERENCE

<i>Introduction</i>	73
On Sense and Nominatum	GOTTLLOB FREGE 75
On Denoting	BERTRAND RUSSELL 93
On Referring	PETER FREDERICK STRAWSON 105
Mr. Strawson on Referring	BERTRAND RUSSELL 127

Part 4 THE THEORY OF TYPES

<i>Introduction</i>	133
Mathematical Logic as Based on the Theory of Types	
	BERTRAND RUSSELL 135
Self-Reference in Philosophy	FREDERIC B. FITCH 154

Part 5 LOGIC AND ONTOLOGY

<i>Introduction</i>	163
On What There Is	WILLARD VAN ORMAN QUINE 165
Empiricism, Semantics, and Ontology	RUDOLF CARNAP 178

The Need for Abstract Entities in Semantic Analysis	ALONZO CHURCH	194
A World of Individuals	NELSON GOODMAN	204
Part 6 LOGIC AND ORDINARY LANGUAGE		
<i>Introduction</i>		217
Formal and Informal Logic	GILBERT RYLE	219
Logical Theory	PETER FREDERICK STRAWSON	226
Mr. Strawson on Logical Theory	WILLARD VAN ORMAN QUINE	236
Mr. Strawson on Symbolic and Traditional Logic	PETER T. GEACH	252
Part 7 MODAL LOGIC		
<i>Introduction</i>		257
The Structure of the System of Strict Implication	CLARENCE IRVING LEWIS	259
The Problem of Interpreting Modal Logic	WILLARD VAN ORMAN QUINE	267
The Problem of the Morning Star and the Evening Star	FREDERIC B. FITCH	273
Modalities and Intensional Languages	RUTH BARCAN MARCUS	278
Reply to Professor Marcus	WILLARD VAN ORMAN QUINE	293
Part 8 DEONTIC LOGIC		
<i>Introduction</i>		301
Deontic Logic	GEORG HENRIK VON WRIGHT	303
A Note on Deontic Logic and Derived Obligation	GEORG HENRIK VON WRIGHT	316
The Formal Analysis of Normative Concepts	ALAN ROSS ANDERSON AND OMAR KHAYYAM MOORE	319
Part 9 MANY VALUED LOGICS		
<i>Introduction</i>		333
Many Valued Logics	JOHN BARKLEY ROSSER AND ATWELL R. TURQUETTE	335
<i>Index</i>		343