## **CONTENTS**

INIKC	DUCTION	1
(Í.	Semantic Entailment and Formal Derivability by E. W. Beth	9
II.	THE COMPLETENESS OF THE FIRST-ORDER FUNCTIONAL CALCULUS by Leon Henkin	42
III.	COMPLETENESS IN THE THEORY OF TYPES by Leon Henkin	51
IV.	Languages in which Self Reference is Possible by Raymond M. Smullyan	64
V.	Informal Rigour and Completeness Proofs by Georg Kreisel	78
VI.	SYSTEMS OF PREDICATIVE ANALYSIS by Solomon Feferman	95
VII.	An Interpretation of the Intuitionistic Sentential Logic by Kurt Gödel	128
VIII.	THE PRESENT THEORY OF TURING MACHINE COMPUTABILITY by Hartley Rogers, Jr	130
IX.	MATHEMATICAL LOGIC: WHAT HAS IT DONE FOR THE PHILOSOPHY OF MATHEMATICS? (Excerpt) by Georg Kreisel	147
X.	THE METAPHYSICS OF THE CALCULUS by Abraham Robinson	153
XI.	WHAT IS ELEMENTARY GEOMETRY? by Alfred Tarski	164
Notes on the Contributors		176
BIBLIOGRAPHY		178
INDEX OF NAMES		185