

Contents

Part One: Sentence Logic	1
Logically Compound Sentences	7
Common Truth-Functional Connectives	11
Truth-Table Definitions of Connectives	43
Truth-Table Analysis of Compound Sentences	51
Logically Equivalent Formulas	87
Part Two: Predicate Logic with Identity	111
Individual Constants and Predicates	117
Symbolizing n -place Predicates	131
Individual Variables and Sentential Functions	139
Symbols for Existential and Universal Quantifiers	142
Symbolizing English Sentences	153
Negations of Quantified Formulas	164
Contradictories and Logical Equivalents	180
Identity	215
Examples	218
Abstraction Operator and Classes	242
Part Three: Ordering Relations and Their Properties	253
Symbolizing Relations	259
Some Properties of Relations	270
Strict Simple and Strict Partial Orderings	284
Simple, Partial, and Weak Orderings	296
Converse and Complement	306
Equivalence Relations	312
Index	315