THE PRINCIPLES OF MATHEMATICS REVISITED

JAAKKO HINTIKKA

Boston University



Contents

Introduction		<i>page</i> vii
1	The functions of logic and the problem of truth	
	definition	1
2	The game of logic	22
3	Frege's fallacy foiled: Independence-friendly logic	46
4	The joys of independence: Some uses of IF logic	72
5	The complexities of completeness	88
6	Who's afraid of Alfred Tarski? Truth definitions for	
	IF first-order languages	105
7	The liar belied: Negation in IF logic	131
8	Axiomatic set theory: Fraenkelstein's monster?	163
9	IF logic as a framework for mathematical theorizing	183
10	Constructivism reconstructed	211
11	The epistemology of mathematical objects	235
Appendix (by Gabriel Sandu)		254
References		271
Index of names		281
Index of subjects and titles		285