

Contents

Preface	v
PART ONE: MATHEMATICS AND MODERN LOGIC	
1. Abstraction and Appropriateness	3
2. Arguments and Validity	9
PART TWO: SENTENTIAL LOGIC	
3. Abstracting SL Forms	19
4. Testing for SL Validity	32
5. Appropriateness in SL Abstraction	56
6. Switching Networks	81
PART THREE: PREDICATE LOGIC	
7. Abstracting PL Forms	101
8. Testing for PL Validity	132
9. Appropriateness in PL Abstraction	155
10. Ordering Integers	179
PART FOUR: FORMAL SYSTEMS	
11. Axioms and Machines	197
12. Logical Systems	211
13. Theories	221
Further Reading	229
Answers to Exercises	235
Index	255