

CONTENTS

	PAGE
PREFACE	v
ALPHABETICAL LIST OF PROPOSITIONS REFERRED TO BY NAMES	xii
INTRODUCTION TO THE SECOND EDITION	xiii
INTRODUCTION	1
CHAPTER I. PRELIMINARY EXPLANATIONS OF IDEAS AND NOTATIONS	4
CHAPTER II. THE THEORY OF LOGICAL TYPES	37
CHAPTER III. INCOMPLETE SYMBOLS	66
PART I. MATHEMATICAL LOGIC	
Summary of Part I	87
SECTION A. THE THEORY OF DEDUCTION	90
*1. Primitive Ideas and Propositions	91
*2. Immediate Consequences of the Primitive Propositions	98
*3. The Logical Product of two Propositions	109
*4. Equivalence and Formal Rules	115
*5. Miscellaneous Propositions	123
SECTION B. THEORY OF APPARENT VARIABLES	127
*9. Extension of the Theory of Deduction from Lower to Higher Types of Propositions	127
*10. Theory of Propositions containing one Apparent Variable	138
*11. Theory of two Apparent Variables	151
*12. The Hierarchy of Types and the Axiom of Reducibility	161
*13. Identity	168
*14. Descriptions	173
SECTION C. CLASSES AND RELATIONS	187
*20. General Theory of Classes	187
*21. General Theory of Relations	200
*22. Calculus of Classes	205
*23. Calculus of Relations	213
*24. The Universal Class, the Null Class, and the Existence of Classes	216
*25. The Universal Relation, the Null Relation, and the Existence of Relations	228

	PAGE
SECTION D. LOGIC OF RELATIONS	231
*30. Descriptive Functions	232
*31. Converses of Relations	238
*32. Referents and Relata of a given Term with respect to a given Relation	242
*33. Domains, Converse Domains, and Fields of Relations	247
*34. The Relative Product of two Relations	256
*35. Relations with Limited Domains and Converse Domains	265
*36. Relations with Limited Fields	277
*37. Plural Descriptive Functions	279
*38. Relations and Classes derived from a Double Descriptive Function	296
Note to Section D	299
SECTION E. PRODUCTS AND SUMS OF CLASSES	302
*40. Products and Sums of Classes of Classes	304
*41. The Product and Sum of a Class of Relations	315
*42. Miscellaneous Propositions	320
*43. The Relations of a Relative Product to its Factors	324
 PART II. PROLEGOMENA TO CARDINAL ARITHMETIC	
Summary of Part II, Section A	328
SECTION A UNIT CLASSES AND COUPLES	329
*50. Identity and Diversity as Relations	331
*51. Unit Classes	338
*52. The Cardinal Number 1	345
*53. Miscellaneous Propositions involving Unit Classes	350
*54. Cardinal Couples	357
*55. Ordinal Couples	364
*56. The Ordinal Number 2_r	375
 APPENDIX A	
*8. The Theory of Deduction for Propositions containing Apparent Variables	385
 APPENDIX C	
Truth-Functions and others	401
LIST OF DEFINITIONS	409