

160  
J82T  
v.3

## CONTENTS OF VOLUME III

### DISCUSSION AND CRITICISM

	PAGE
<b>Chap. IX. SUMMARY OF THE VIEWS OF MODERN MATHEMATICIANS AS TO THE FOUNDATIONS OF MATHEMATICS</b> .....	1
A. Foundations and Systematisation of Geometry .....	1
B. The Arithmetisation of Mathematics, and the Theory of Manifolds .....	18
C. Foundations of Arithmetic and Analysis .....	44
<b>Chap. X CRITICAL EXAMINATION OF THE LOGISTIC THEORY OF MATHEMATICS</b> .....	57
A. Natural Numbers .....	58
B. Infinite Numbers .....	73
C. Limit, Continuity, Function, and Space .....	85
<b>Chap. XI. THE RELATION BETWEEN LOGISTICS AND MATHEMATICS, WITH SPECIAL REGARD TO METHODOLOGICAL QUESTIONS</b>	101
A. The Mathematical Proof .....	103
B. Discovery and Proof .....	122
C. Logistics and Mathematics .....	134
D. The Genetic, the Axiomatic and the Logistic Method .....	141
<b>Chap. XII. THE LOGICAL-MATHEMATICAL PARADOXES AND THE THEORY OF TYPES</b> .....	161
A. The Paradoxes .....	162
B. Main Features of the Theory of Types .....	168
C. The Theory of Types considered .....	189
<b>Chap. XIII. THE REAL PRESUPPOSITIONS OF FORMAL LOGIC, ITS AIM AND MATERIAL</b> .....	201
A. Introductory Remarks on the Subject, Aim and Method of Formal Logic .....	202
B. The Material of Formal Logic .....	208
<b>Chap. XIV. ANALYSIS AND SYMBOLISATION OF LOGICAL FORMS</b> .....	242
A. Analysis of the Logical Forms .....	243
B. Symbolisation of the Logical Forms .....	263
<b>Chap. XV. THE IDEAL PRESUPPOSITIONS OF FORMAL LOGIC</b> .....	276
<b>Chap. XVI. SUMMARY AND CONCLUSION</b> .....	294
<b>INDEX OF PROPER NAMES</b> .....	299
<b>INDEX OF TERMS</b> .....	306