

Contents

Preface	vii
Acknowledgements	x
Chapter One: Constructions	1
1. Entities, constructions, and functions	1
2. Two views of arithmetic	2
3. The linguistic turn	5
Chapter Two: Fregean Functions	16
4. Frege and constructions	16
5. Functions as structured entities	21
6. The Extensionality Thesis	25
7. Unsaturation	26
8. The Immediacy Thesis	29
Chapter Three: Fregean Objects	33
9. Objects as their own constructions	33
10. Objects as meta-constructions	36
11. Multiple analyses	41
Chapter Four: Variables	47
12. Russell's Paradox	47
13. The Vicious Circle Principle	50
14. An objectual notion of variable	56
Chapter Five: A Hierarchy of Entities	63
15. The five modes of forming constructions	63
16. The ramified hierarchy	65
17. Substitution	70
Chapter Six: Two Interpretations of the Concept Script ..	77
18. The syntax of the Concept Script	77
19. Interpretation A	82
20. Interpretation B	87
21. The ambiguity embraced	92

Chapter Seven: Senses and Presentations	98
22. The ambiguity	98
23. Rigid presentations	23
24. Indexicals	24
Chapter Eight: The Mediacy Thesis	113
25. The discrepancy	113
26. The definite article	120
27. Oblique reference	125
Chapter Nine: Disambiguating Natural Discourse	130
28. Context dependence	130
29. The asymmetry argument	136
30. Russell's Theory of Descriptions	144
Chapter Ten: Church's Logic of Sense and Denotation	150
31. Disambiguating with the grain	150
32. Church's system rectified	154
33. Assertion	162
34. The cross-reference problem	167
Chapter Eleven: Logical Space	172
35. The nature of determiners	172
36. Possible worlds	177
37. The temporal dimension	186
38. Epistemic framework	194
Chapter Twelve: Transparent Intensional Logic	201
39. Application	201
40. Aboutness	207
41. <i>De dicto</i> and <i>de re</i>	212
42. The limitations of logical space	218
43. Constructional attitudes: aboutness revisited	221
44. Codes and languages	227
Chapter Thirteen: Inference	234
45. The two views	234
46. 'Natural deduction'	240
47. Sequents	248
Chapter Fourteen: The Fallacy of Subject Matter	254
48. 'Arbitrary objects'	255
49. Fictional and historic reference	261
50. 'Formal axiomatics'	270
51. Epilogue	281

Contents	xiii
Appendices	288
Bibliography	294
Index of Names	299
Index of Subjects	300