

CONTENTS

1. Formulas and classes	1
2. Axioms of Zermelo-Fraenkel	2
3. Ordinal numbers	6
4. Cardinal numbers	9
5. Finite sets	12
6. Real numbers	13
7. Axiom of choice	15
8. Cardinal arithmetic	16
9. Axiom of regularity	19
10. Transitive models	20
11. Constructible sets	32
12. Consistency of AC and GCH	35
13. More on transitive models	36
14. Ordinal definability	41
15. Ultrapowers	43
16. Remarks on complete Boolean algebras	47
17. Method of forcing and Boolean-valued models	51
18. Independence of the continuum hypothesis and collapsing of cardinals	62
19. Two applications of Boolean-valued models in the theory of Boolean algebras	74
20. Lebesgue measurability	78
21. Suslin's problem	90
22. Martin's axiom	99
23. Perfect forcing	109
24. Remark on ordinal definability	113
25. Independence of AC	114
26. Fraenkel-Mostowski models	122
27. Embedding of FM models in models of ZF	125
Bibliography	131
Index	136