

CONTENTS

SECTION 1. ELEMENTARY THEORY

Chapter

0.	Zermelo-Fraenkel Set Theory	1
1.	The Constructible Universe	24
2.	The Axiom of Constructibility, The Condensation Lemma, and the GCH	29
3.	The Souslin Hypothesis	43
4.	The Kurepa Hypothesis	53
5.	Constructibility and the Continuum	59

SECTION 2. JENSEN'S FINE STRUCTURE THEORY

6.	The Jensen Hierarchy of Constructible Sets	73
7.	The Fine Structure of the Jensen Hierarchy	86
8.	The Combinatorial Principles \square_κ	104
9.	The Generalised Souslin Hypothesis for Successor Cardinals	115

SECTION 3. ON LARGE CARDINALS IN THE CONSTRUCTIBLE UNIVERSE

10.	Ineffable Cardinals and the Generalised Kurepa Hypothesis	119
11.	Weakly Compact Cardinals and the Generalised Souslin Hypothesis	130

SECTION 4. MODEL THEORY IN THE CONSTRUCTIBLE UNIVERSE; MORASSES

12.	The Gap-1 Two Cardinal Theorem	138
13.	Gap-1 Morasses	145
14.	The Gap-2 Two Cardinal Theorem	171

SECTION 5. LARGE CARDINALS AND CONSTRUCTIBILITY

15.	Small Large Cardinals. (Inaccessible, Mahlo, Weakly Compact, Ineffable)	183
16.	Medium Large Cardinals ($\kappa \rightarrow (\omega)^{<\omega}$)	186
17.	Large Large Cardinals ($\kappa \rightarrow (\omega_1)^{<\omega}$, Ramsey, measurable)	188

SECTION 6. RELATIVE CONSTRUCTIBILITY

18.	Relative Constructibility	206
19.	The Inner Model $L[\mu]$	214
20.	Strongly Compact Cardinals and Relative Constructibility	229