

Contents

Preface	vii
CHAPTER 1	
Mappings and Domains	1
CHAPTER 2	
Functionals and Predicates	15
CHAPTER 3	
Basic Operations	29
CHAPTER 4	
Primitive Recursive Operations	47
CHAPTER 5	
Basic Recursion	67
CHAPTER 6	
Church's Thesis	85
CHAPTER 7	
Functional Recursion	97
CHAPTER 8	
Recursive Algorithms	109
CHAPTER 9	
Formalization: Structural Semantics	125
CHAPTER 10	
Formalization: Reductioal Semantics	141
CHAPTER 11	
Interpreters	157
CHAPTER 12	
A Universal Interpreter	171
CHAPTER 13	
Enumeration	189

CHAPTER 14	
Continuous Functionals	205
CHAPTER 15	
A Selector Theorem	219
CHAPTER 16	
Hyperenumeration	233
CHAPTER 17	
Recursion in Normal Classes	243
APPENDIX	
Recursion and Church's Thesis	259
REFERENCES	265
INDEX	269
LIST OF SYMBOLS	275