

Contents

	Page
Abstract	1
§ 1 The computation domain	14
§ 2 Recursion on α	17
§ 3 Connection with Kleene recursion in higher types	26
§ 4 Recursion in normal lists on α	34
§ 5 Kleene recursion in normal objects of type $n+2$, $n > 0$	50
§ 6 Computation theories on α	54
§ 7 Abstract Kleene theories	60
§ 8 Normal computation theories on α	64
§ 9 More about Mahloness	99
§ 10 Calculation of the lengths of some computations	109
§ 11 Gaps	120
§ 12 On Platek: "Foundations of Recursion Theory"	150
§ 13 A final comment concerning the two types	193
References	195
Index of notations	197
Subject index	200