## Contents

	Prefa	ce	ix
		I. Foundations	
1	Histo	rical Background	3
	1.1	Suzumura Consistency 3	
	1.2	Rational Choice as Purposive Behavior 6	
	1.3	Samuelson's Weak Axiom 7	
	1.4	Houthakker's Axiom 12	
	1.5	General Choice Functions 15	
	1.6	Rational Choice: An Outlook 20	
	1.7	Reference-Dependent Choice 21	
	1.8	External Norms 23	
	1.9	Welfare Economics and Social Choice Theory 26	
	1.10	Beyond Finite-Population Social Choice 29	
2	Mathe	ematical Background	32
	2.1	Binary Relations 32	
	2.2	Greatest and Maximal Elements 41	
	2.3	Extensions of Relations 42	
	2.4	Filters and Ultrafilters 52	
		II. Rationalizability on General Domains	
3	Defini	tions of Rationalizability	57
	3.1	Preliminaries 57	
	3.2	Greatest-Element Rationalizability 61	

	3.3 3.4	Maximal-Element Rationalizability 72 A Synthesis 75	
4	Characterizations		77
	4.1	A Preliminary Result 77	
	4.2	Three Special Cases 78	
	4.3	A Unified Approach 81	
	4.4	Summary 109	
		III. Rationalizability on Specific Domains	
5	Doma	ain Closedness Properties	115
	5.1	Additional Choice Coherence Axioms 115	
	5.2	Logical Relationships 119	
	5.3	Closedness under Intersection 121	
	5.4	Closedness under Union 122	
6	Cardinality-Complete Domains		128
	6.1	Base Domains 128	
	6.2	Logical Relationships on Base Domains 128	
	6.3	Characterizations on Base Domains 130	
	6.4	Base Domains and Closedness under Union 134	
		IV. Alternative Notions of Rationalizability	
7	Non-	deteriorating Choice	139
	7.1	Individual Non-deteriorating Choice 139	
	7.2	Characterizations of ND-Rationalizability 144	
	7.3	The Multi-agent Case 146	
	7.4	Characterizing Efficient and Non-deteriorating Choice	153
8	Exter	nal Norms and Rational Choice	162
	8.1	Internal Coherence of Choice 162	
	8.2	Norm-Conditional Choice 163	
	8.3	Norm-Conditional Rationalizability 164	
	8.4	Characterization Results 165	

مواليا والمراقبة والمحفوظ والمنافع والمستعمل والمحموط والمحموظ والمحمول والمحمول والمحمول والمحمود والمحاف المرايية والمرايية

ことの時代のないないのであるのである。 したいしゃ

and the second second

## V. Topics in Social Choice Theory

	0.1	Weakening Social Coherence Properties 173	
	9.1 9.2	Earlier Results 177	
	9.2 9.3		
	9.4	A Characterization 180	
10	Decisiveness and Infinite Populations		185
	10.1	Decisive Coalitions, Filters, and Ultrafilters 185	
	10.2	Decisiveness without Social Richness Assumptions 187	
	10.3	Intergenerational Social Choice 193	
	10.4	Multi-profile Stationarity 198	
	Refere	nces	205
	Index		215