

# Contents

<i>Section</i>		<i>Page</i>
	Preface . . . . .	v
1	Introduction. The Krein-Milman theorem as an integral representation theorem . . . . .	1
2	Application of the Krein-Milman theorem to completely monotonic functions . . . . .	9
3	Choquet's theorem: The metrizable case. . . . .	13
4	The Choquet-Bishop-de Leeuw existence theorem . . . . .	17
5	Applications to Rainwater's and Haydon's theorems . . . . .	25
6	A new setting: The Choquet boundary . . . . .	27
7	Applications of the Choquet boundary to resolvents . . . . .	35
8	The Choquet boundary for uniform algebras . . . . .	39
9	The Choquet boundary and approximation theory . . . . .	47
10	Uniqueness of representing measures. . . . .	51
11	Properties of the resultant map . . . . .	65
12	Application to invariant and ergodic measures . . . . .	73
13	A method for extending the representation theorems: Caps . . . . .	79
14	A different method for extending the representation theorems . . . . .	88
15	Orderings and dilations of measures . . . . .	93
16	Additional Topics . . . . .	101
	References . . . . .	115
	Index of symbols . . . . .	122
	Index . . . . .	123