Generalized Inverses and Operator Theory S.R. Caradus

CONTENTS

Chap	eter 1	rag
Intr	oduction and Fundamental Properties	
1.1 1.2 1.3 1.4	Generalized Inverses for Integral Equations Basic Properties of Generalized Inverses Generalized Inverses for Unbounded Operators Representation Theorems for the Set of Generalized Inverses	1 9 18
Chap	ter 2	
Gene	ralized Inverses in Hilbert Space	
2.2	Best Approximation Problems Hilbert Space Methods for Calculating Generalized Inverses	32
	Generalized Inverses	41
Chap	ter 3	•
App1	ications of Generalized Inverses	
	Generalized Inverses for Differential Systems Applications to Non Linear Analysis Applications to Control Theory Wide-sense Markov Processes	58 67 76 80
Chap	ter 4	
Gene	ralized Inverses in Semigroups, Rings and Catego	ries
4.1 4.2 4.3	Generalized Inverses in Rings and Algebras	88 93 118
Chap	ter 5	
Pert	ırbation Theory	
5.2 .	Products of g-invertible Operators Perturbation Theory Operator Functions	123 140 157

Chapter 6

Bibliography

Spectral Generalized Inverses Generalized Operational Calculus 179

183

190

198

Spectral Theory

Mapping Properties