

Index Seite 2

Dominant spectral value	196ff, 330, 342ff	
	strictly	196ff, 233, 239, 342ff
Domination	294ff, 405	
	semigroup	25ff
Dunford-Pettis property	62	
Eigenspace	76, 96	
Eigenvalue	76, 433	
	approximate	76, 339
	simple	84, 331, 335, 427
	normalized	427
Eigenvector	76, 433	
	approximate	76, 339
Elliptic differential operator	204, 208ff, 286, 331, 342	
Equation		
	differential	6
	heat	21
	population	251, 371ff, 381ff, 391ff
	retarded	383ff
	transport	335ff, 344
Example		
	counter	72ff, 119, 151, 291ff, 336
	standard	9ff, 50ff, 113ff, 203, 354
Exponential estimate	4ff	
\mathcal{F}-product	34ff, 325ff, 339ff	
\mathcal{F}-product with respect to a semigroup	34ff, 85ff, 210	
Féjer's theorem	104ff	
Feller property		
	strong	236
Fixed space	370ff, 408ff	
Flow	162ff	
	continuous	165, 210ff, 354
	semi	162ff, 356ff
	separately continuous	166ff
Forcing term	126ff, 367ff	
	periodic	130
	p-periodic	127ff

Fourier transformation	17ff, 101, 279	
	inverse	17, 101
	coefficient	100
Fredholm		
	domain	84ff
	operator	84ff
Gateaux-derivative	58, 155, 284, 307	
Generalized solution	112, 126	
Generator	5ff	
	bounded	4, 61ff, 149, 276, 282, 311, 411ff
Geometric multiplicity	84	
Graph	8	
Graph norm	8	
Grothendieck space	62ff	
Group	3, 8, 12, 43, 77, 165ff, 350ff, 379ff	
	automorphism	165ff
	lattice homomorphism	232
	one-parameter	3, 8, 40
	positive	165, 166ff, 322, 350ff
	rotation	14, 80, 379ff
	unitary	17
Growth bound	4, 8, 71ff	
	of a semigroup	4, 8, 71ff, 85, 99ff, 150, 185, 227ff, 322, 361ff, 370
	of mild solutions of a Cauchy problem	111ff
	of solutions of a Cauchy problem	111ff, 227ff, 363ff
	essential	85, 370
Half-norm	58ff, 148ff	
	canonical	58ff, 148ff, 290ff
	strict	58ff, 148ff
Heat equation	17	
Hille-Yosida theorem	41	
Ideal	263	
	algebraic	157
	closed	157, 363
	invariant	210ff, 329, 332ff, 341

	lattice	263
Imaginary additively	193ff, 210ff, 333	
cyclic subset		
Inhomogeneous differential equation	126ff, 367ff	
Integral equation	390	
Interpolation	362, 375, 379	
Invariant		
	ideals	210ff, 329, 332ff, 341
Irreducible	155ff, 283ff, 447	
	semigroup	150, 161ff, 233, 332ff, 336ff, 339ff