TABLE OF SYMBOLS

$E_{\mathbb{R}}$, $E_{\mathbb{C}} = E$	real , complex Banach lattice
E_+	positive cone
E'	dual
E^*	semigroup dual
E_F^T	F-product of E with respect to the semigroup T
E_F	F-product of E
E_f	see C-I,4
(E,ϕ)	see C-I,4
$E \otimes F$	tensor product
$L(E)$	bounded linear operators on E
$Z(E)$	center of E
E_n	n-th Sobolev space
$B(H)$	W*-algebra of all bounded linear operators on H
$S(M)$	state space of a C*-algebra M
M_+	positive cone of the C*-algebra M
M_*	predual
M^{sa}	self-adjoint part
M_n	C*-algebra of all n×n-matrices
AC	absolutely continuous functions
BV	functions of bounded variation
K	compact topological space
X	locally compact topological space
$C(K)$, $C(K,E)$	continuous functions (with values in E)
$C_0(X)$, $C_0(X,E)$	continuous functions vanishing in infinity with values in E
$C^b(X)$	bounded continuous functions
$C_{bu}(X)$	uniformly continuous functions
C^1 , $C^{(n)}$	continuous differentiable functions (n-times)
$C_c^\infty(\mathbb{R}^n)$	infinitely differentiable functions with compact support
$L^p(\mu)$	p-integrable functions
$S(\mathbb{R}^n)$	Schwartz space
$M(K)$	regular Borel measures
$M_b(X)$	bounded regular Borel measures
$T = (T(t))_{t\geq 0}$	(one-parameter) semigroup
$T_\|$	subspace (reduced) semigroup
$T_/$	quotient semigroup
$\mathrm{Fix}(T)$	fixed space of T

A	generator
A'	adjoint
A^*	adjoint generator
$\sigma(A)$	spectrum
$\rho(A)$	resolvent set
$\sigma_{ess}(A)$	essential spectrum
$\sigma_b(A)$	boundary spectrum
$P\sigma(A)$	point spectrum
$P\sigma_b(A)$	boundary point spectrum
$A\sigma(A)$	approximate point spectrum
$R\sigma(A)$	residual spectrum
$\omega = \omega(A) = \omega(T) = \omega(T(t))$	growth bound
$s(A)$	spectral bound
$\omega_I(A)$	growth bound of the solution of the (ACP)
$\omega(f)$	growth bound of $T(\cdot)f$
$r(T)$	spectral radius
$\omega_{ess}(A)$	essential growth bound
$r_{ess}(T)$	essential spectral radius
$R(\lambda,A)$	resolvent operator
I^d , $(I^d)^d=I^{dd}$	orthogonal band of I (of I^d)
$\wedge$	infimum
$\vee$	supremum
$\|T\|$	modulus of a regular operator
$\hat{f}$, $\check{f}$	Fourier (inverse Fourier) transformation
$dp(f)$	subdifferential of p in f
$dN(f)$	subdifferential of the norm in f
$dN^+(f)$	subdifferential of the canonical half-norm in f
im	range
ker	null-space
Im	imaginary part
Re	real part
Ref , Imf	see C-I,7
ReT , ImT	see C-I,7
$\bar{f}$	complex conjugate of f
S_f	signum operator with respect to f
sign f	signum of f
$\hat{\text{sign}}$ f	see C-II,2.2
$f^{[n]}$	B-III,2.2 ; C-III,2.1
$\|f\|$	absolute value of f
f^+	positive part of f
f^-	negative part of f

Id	identity operator
M_p	multiplication operator
1	function identically 1
1_C	characteristic function of the set C
δ_x	Dirac measure in x
tr	trace
span M	linear subspace generated by M
$S(\alpha)$	sector in the complex plane
(ACP)	abstract Cauchy problem
(P)	positive minimum principle
(P')	B-II, I.21
(K)	Kato's (equality) inequality
(RCP)	retarded Cauchy problem
(RE)	retarded equation
(T)	translation property