

## NOTATION

The following notation is frequently used without explanation in the text.

$\bar{A}$  = closure of a subset  $A$  (usually in a Euclidean space)

$B \sim A = \{x \in B : x \notin A\}$

$\chi_A$  = characteristic function of  $A$

$\underset{=}{1}_A$  = identity map  $A \rightarrow A$

$L^n$  = Lebesgue measure in  $\mathbb{R}^n$

$B_\rho(x)$  = open (\*) ball with centre  $x$  radius  $\rho$

$\bar{B}_\rho(x)$  = closed ball ;

(If we wish to emphasize that these balls are in the balls in  $\mathbb{R}^P$ , we write

$B_\rho^P(x)$ ,  $\bar{B}_\rho^P(x)$ .)

$\omega_n = L^n(B_1(0))$

$\eta_{x,\lambda} : \mathbb{R}^P \rightarrow \mathbb{R}^P$

(for  $\lambda > 0$ ,  $x \in \mathbb{R}^P$ ) is defined by  $\eta_{x,\lambda}(y) = \lambda^{-1}(y-x)$  ;

thus  $\eta_{x,1}$  is translation  $y \mapsto y-x$ , and  $\eta_{0,\lambda}$  is homothety  $y \mapsto \lambda^{-1}y$

$W \subset\subset U$  ( $U$  an open subset of  $\mathbb{R}^P$ )

shall always mean that  $W$  is *open* and  $\bar{W}$  is a compact subset of  $U$ .

$C^k(U,V)$  ( $U,V$  open subsets of finite dimensional vector spaces) denotes the space of  $C^k$  maps from  $U$  into  $V$ .

$C_c^k(U,V) = \{\phi \in C^k(U,V) : \phi \text{ has compact support}\}$ .

---

(\*) In Chapter 1  $B_\rho(x)$  denotes the *closed* ball.