## E. J. MCSHANE

## Corrigendum to the Paper

## "Integration in Linear Spaces"

Archive for Rational Mechanics & Analysis, Volume 18, pp. 403-421 (1965)

On page 403 we should define the distance  $\rho(f_1, f_2)$  between arbitrary realvalued functions  $f_1, f_2$  on  $\mathfrak{X}$  to be the infimum of numbers h such that

$$m^* \{x \in \mathfrak{X} : |f_1(x) - f_2(x)| \ge h\} < h,$$

where  $m^*$  is the exterior measure corresponding to m. This is needed in the definition (page 415) of  $\mu$ -measurability of a function f; it requires no change in any discussion.

In Lemma 9 it is stated that  $\Re = \Re_1 \lor \Re_2$ . This is erroneous. [Also, the Minkowski function is misnamed "support function".] To correct this seems to need some strengthening of hypotheses. It is enough to add the assumption:

For every finitely-based open convex set K, mK is the infimum of m $\Pi$  for all sets  $\Pi$  that are the intersections of finitely many closed half-spaces and contain K.

The proof is thereby simplified by deleting lines 9-22 of page 417 ("such" on line 23 meaning "containing  $Q_0$ ") and replacing  $Q_i(\delta)$  and  $Q_i(\delta-)$  by  $Q_i$  in the rest of the proof. In definition 9.1 "pseudo-metrics" should be "pseudo-norms".

Dept. of Mathematics, University of Virginia, Charlottesville, Va.