

Correction to "Method od orthogonal projections and approximation of the spectrum of a bounded operator"

Studia Math. 65 (1979), 21-29

by

ANDRZEJ POKRZYWA (Warszawa)

Salinas' characterization of the Browder essential spectrum cited in Lemma 5 is false. This is shown in my paper "A characterization of the Weyl spectrum", Proc Amer. Math. Soc. 92 (1984), 215-218. However, this does not affect the results of the paper. The Salinas formula was used only once in order to show that

$$(*) \quad \Sigma(A) \setminus W_e(A) \subset \Sigma_d(A).$$

It follows from the definition of the Weyl essential spectrum ($\Sigma_W(A) = \bigcap_{K \in LC(H)} \Sigma(A+K)$) and the definition of the essential numerical range that $\Sigma_W(A) \subset W_e(A)$. Since the Browder essential spectrum is the union of the Weyl essential spectrum and some bounded components of $C \setminus \Sigma_W(A)$, the convex hulls of these two spectra are the same. Therefore (*) remains true.

Received May 25, 1984

(1980)