

Lewicki, Grzegorz**Strong unicity criterion in some space of operators.** (English) Zbl 0785.41023
Commentat. Math. Univ. Carol. 34, No. 1, 81-87 (1993).

Summary: Let X be a finite-dimensional Banach space and let $Y \subset X$ be a hyperplane. Let $\mathcal{L}_Y = \{L \in \mathcal{L}(X, Y) : L|_Y = 0\}$. In this note, we present sufficient and necessary conditions on $L_0 \in \mathcal{L}_Y$ being a strongly unique best approximation for given $L \in \mathcal{L}(X)$. Next, we apply this characterization to the case of $X = \ell_\infty^n$ and to generalization of Theorem I.1.3 from *Wl. Odyniec* and *G. Lewicki* [Minimal projections in Banach spaces, Lect. Notes Math. 1449 (1990)].

MSC:

- [41A65](#) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Cited in **6** Documents
- [41A52](#) Uniqueness of best approximation
- [41A35](#) Approximation by operators (in particular, by integral operators)
- [41A50](#) Best approximation, Chebyshev systems

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