

## ( $f, Y$ )- INDUCED BEST APPROXIMATION WITH RESPECT TO A SUBSPACE

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**Abstract.** The concept of the  $(f, Y, M)$  - induced best approximation is introduced in an abstract space. The existence, the uniqueness of the element of the  $(f, Y, M)$  - induced best approximation is studied, together with the structure of the set of this type of elements.

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