Prakash, N.
Stability of $E$-proximinality. (English) Zbl 07546771
Palest. J. Math. 11, No. 1, 524-530 (2022)

Summary: The notion of $E$-proximinality was recently introduced. In this paper, we prove that $E$-proximinality is stable under $c_0$-direct sum of Banach spaces. We present an example of a proximinal hyperplane which is not $E$-proximinal. We also provide an alternate definition of $E$-proximinality and prove its equivalence.

MSC:
46B20 Geometry and structure of normed linear spaces
41A50 Best approximation, Chebyshev systems
41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)

Keywords:
hyperplanes; proximinal; $E$-proximinal; ball proximal; strongly proximinal; norm attaining functional

Full Text: Link

References:

This reference list is based on information provided by the publisher or from digital mathematics libraries. Its items are heuristically matched to zbMATH identifiers and may contain data conversion errors. It attempts to reflect the references listed in the original paper as accurately as possible without claiming the completeness or perfect precision of the matching.