

On Stability and hyperstability of Drygas functional equation in quasi-Banach space

Ravinder Sharma¹ and Sumit Chandok¹

¹Thapar Institute of Engineering and Technology

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Abstract

In this paper, we investigate the Ulam-Hyers-Rassias stability for the Drygas functional equation $f(x+y) + f(x-y) = 2f(x) + f(y) + f(-y)$ in the setting quasi-Banach spaces using the approach of Brzdek's fixed point theorem. Also, we gave a general result on the hyperstability of Drygas functional equation. The results obtained in this paper extend various previously known results to the setting of quasi-Banach space.

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