

On the practical feedback stabilization for evolution equations in Banach spaces

Hanen Damak¹

¹University of Sfax Faculty of Sciences of Sfax

November 2, 2020

Abstract

This paper investigates the notion of practical feedback stabilization of evolution equations satisfying some relaxed conditions in infinite-dimensional Banach spaces. Moreover, sufficient conditions are presented that guarantee practical stabilizability of uncertain systems based on Lyapunov functions. These results are applied to partial differential equations.

Hosted file

DAMAK2020.pdf available at <https://authorea.com/users/372225/articles/490337-on-the-practical-feedback-stabilization-for-evolution-equations-in-banach-spaces>