A generalized fractional (q,h)-Gronwall inequality and its applications to nonlinear fractional delay (q,h)-difference systems

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October 30, 2020

Abstract

In this paper, a generalized fractional (q,h)-Gronwall inequality is investigated. Based on this inequality, we derive the uniqueness theorem and the finite-time stability criterion of nonlinear fractional delay (q,h)-difference systems. Several examples are given to illustrate our theoretical result.

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