Solving Nonhomogeneous Fuzzy nth-order Linear Differential Equation

Hamed Mansoori Boroojeni

Sahand University of Technology

h-mansoori@ sut.ac.ir

Sohrab Effati

Ferdosi University of mashhad

effati911@ yahoo.com

Kazem ghanbari

Sahand University of Technology

kghanbari@ sut.ac.ir

Abstract

In this paper, an analytical methods for solving nth-order linear differential equations with fuzzy initial conditions are presented. The method is based on the differentiation operator.

keywords: fuzzy differential equation; differentiation operator; r-level set.