



Applications of fuzzy conformable Laplace transforms for solving fuzzy conformable differential equations

Awais Younus¹ · Muhammad Asif² · Usama Atta³ · Tehmina Bashir² · Thabet Abdeljawad^{2,3}

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Abstract

Conformable derivatives have deep connections with fractals and local fractional calculus. This paper presents a generalized concept of higher-order fuzzy conformable differentiability for fuzzy-valued functions and interprets higher-order fuzzy conformable differential equations using this concept. We propose the fuzzy conformable Laplace transform (FCLT) as an alternative to the fuzzy Sumudu integral transform, and fuzzy Shehu transform method; and establish some potential properties of FCLT, related to higher-order fuzzy conformable derivatives. The FCLT method is very convenient for solving fuzzy conformable linear higher-order differential equations. We illustrate linear second-order and linear fourth-order fuzzy conformable initial value problems having at most four and sixteen different solutions, respectively.

Keywords Fuzzy conformable Laplace transform · Strongly generalized conformable derivative · Fuzzy conformable differential equation · Fuzzy conformable initial value problem

1 Introduction

In the modeling of engineering and physical problems like there in classical mechanics, general relativity, electrodynamics, etc., the role of differential equations is very vast. Though on a broader perspective, the initial conditions are assumed to be defined exactly corresponding to the model, certain errors in experimental data or observational mea-

surements may effectuate incomplete, vague or uncertain information. Fuzzy differential equations can overcome these kinds of uncertainties.

Various analytical and computational methods are applied to solve fuzzy differential equations. See, for example, (Bede et al. (2007), Bede (2008), Khastan et al. (2009)). One of the adopted methods is fuzzy Laplace transform, which was introduced in Tofigh and Barkhordari (2010). Then an improved version of the results of Tofigh and Barkhordari (2010) and under what conditions fuzzy Laplace transform exists were stated in Salahshour and Allahviranloo (2013). Also, they fined out the solution for fuzzy second-order differential equations using fuzzy Laplace transform. Since then, many authors have used fuzzy Laplace transform to solve fuzzy ordinary differential equations (Latif et al. 2014; Ahmad et al. 2016; Elbassan et al. 2015). After the use of fuzzy Laplace transform, the fuzzy differential equations turn into an algebraic expression, so become easy to solve. A long ago, the fractional derivative caught the eyes of many researchers (Xiao-Jun et al. 2022, 2013). There are almost 25 definitions of fractional derivative (Ortigueira and Tenreiro 2015), but none of these definitions satisfy all the basic axioms of differentiation and integration. To overcome these drawbacks, the conformable derivative was first introduced by Roshdi et al. (2014) and after then the conformable Laplace transform was introduced by Abdeljawad (2015) and

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Table of Contents Applications Of Fuzzy Laplace Transforms Springer

1. Understanding the eBook Applications Of Fuzzy Laplace Transforms Springer
 - The Rise of Digital Reading Applications Of Fuzzy Laplace Transforms Springer
 - Advantages of eBooks Over Traditional Books
2. Identifying Applications Of Fuzzy Laplace Transforms Springer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Applications Of Fuzzy Laplace Transforms Springer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Applications Of Fuzzy Laplace Transforms Springer
 - Personalized Recommendations
 - Applications Of Fuzzy Laplace Transforms Springer User Reviews and Ratings
 - Applications Of Fuzzy Laplace Transforms Springer and Bestseller Lists

5. Accessing Applications Of Fuzzy Laplace Transforms Springer Free and Paid eBooks
 - Applications Of Fuzzy Laplace Transforms Springer Public Domain eBooks
 - Applications Of Fuzzy Laplace Transforms Springer eBook Subscription Services
 - Applications Of Fuzzy Laplace Transforms Springer Budget-Friendly Options
6. Navigating Applications Of Fuzzy Laplace Transforms Springer eBook Formats
 - ePub, PDF, MOBI, and More
 - Applications Of Fuzzy Laplace Transforms Springer Compatibility with Devices
 - Applications Of Fuzzy Laplace Transforms Springer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Applications Of Fuzzy Laplace Transforms Springer
 - Highlighting and Note-Taking Applications Of Fuzzy Laplace Transforms Springer
 - Interactive Elements Applications Of Fuzzy Laplace Transforms Springer
8. Staying Engaged with Applications Of Fuzzy Laplace Transforms Springer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Applications Of Fuzzy Laplace Transforms Springer
9. Balancing eBooks and Physical Books Applications Of Fuzzy Laplace Transforms Springer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Applications Of Fuzzy Laplace Transforms Springer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Applications Of Fuzzy Laplace Transforms Springer
 - Setting Reading Goals Applications Of Fuzzy Laplace Transforms Springer
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Applications Of Fuzzy Laplace Transforms Springer
 - Fact-Checking eBook Content of Applications Of Fuzzy Laplace Transforms Springer
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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