



Composition Operators on Vector-Valued Function Spaces

Sumin Kim¹

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Abstract

In this paper we consider the norm of composition operators on vector-valued function spaces. Let X be a complex Banach space and θ be an inner function. We show that the norm of the composition operator C_θ on the vector-valued Hardy space $H^p(\mathbb{T}, X)$ ($1 \leq p < \infty$) is given by

$$\|C_\theta\|_{\mathcal{B}(H^p(\mathbb{T}, X))} = \left(\frac{1 + |\theta(0)|}{1 - |\theta(0)|} \right)^{\frac{1}{p}}.$$

Also we are concerned with the Poisson integral of vector-valued function on the unit circle $\mathbb{T}$ and showed some properties in composition operators on vector-valued function spaces, and operator-valued function spaces.

Keywords Composition operators · Vector-valued functions · Poisson integrals

Mathematics Subject Classification Primary 47B33 · 46E40; Secondary 42B30

1 Introduction

In this paper, we are concerned with the norm of composition operator C_θ on the vector-valued function spaces, and operator-valued function spaces. Also we consider the Poisson integral of vector-valued function on the unit circle $\mathbb{T}$ and showed some properties (isometricity, invertibility, unitarity) in composition operators on vector-valued function spaces. For an inner function θ , the composition operator $C_\theta : L^2(\mathbb{T}) \rightarrow L^2(\mathbb{T})$ is defined by

$$C_\theta f := f \circ \theta.$$

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✉ Sumin Kim
suminkim@changwon.ac.kr

¹ Department of Mathematics, Changwon National University, Changwon 51140, Korea

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Table of Contents Composition Operators On Function Spaces

1. Understanding the eBook Composition Operators On Function Spaces
 - The Rise of Digital Reading Composition Operators On Function Spaces
 - Advantages of eBooks Over Traditional Books
2. Identifying Composition Operators On Function Spaces
 - 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 Composition Operators On Function Spaces
 - User-Friendly Interface
4. Exploring eBook Recommendations from Composition Operators On Function Spaces
 - Personalized Recommendations
 - Composition Operators On Function Spaces User Reviews and Ratings
 - Composition Operators On Function Spaces and Bestseller Lists
5. Accessing Composition Operators On Function Spaces Free and Paid eBooks
 - Composition Operators On Function Spaces Public Domain eBooks
 - Composition Operators On Function Spaces eBook Subscription Services
 - Composition Operators On Function Spaces Budget-Friendly Options
6. Navigating Composition Operators On Function Spaces eBook Formats

- ePub, PDF, MOBI, and More
- Composition Operators On Function Spaces Compatibility with Devices
- Composition Operators On Function Spaces Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Composition Operators On Function Spaces
 - Highlighting and Note-Taking Composition Operators On Function Spaces
 - Interactive Elements Composition Operators On Function Spaces
- 8. Staying Engaged with Composition Operators On Function Spaces
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Composition Operators On Function Spaces
- 9. Balancing eBooks and Physical Books Composition Operators On Function Spaces
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Composition Operators On Function Spaces
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Composition Operators On Function Spaces
 - Setting Reading Goals Composition Operators On Function Spaces
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Composition Operators On Function Spaces
 - Fact-Checking eBook Content of Composition Operators On Function Spaces
 - 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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