



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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Composition Operators On Function Spaces

Krzysztof Jarosz



Composition Operators On Function Spaces:

Composition Operators on Function Spaces R.K. Singh, J.S. Manhas, 1993-11-03 This volume of the Mathematics Studies presents work done on composition operators during the last 25 years. Composition operators form a simple but interesting class of operators having interactions with different branches of mathematics and mathematical physics. After an introduction, the book deals with these operators on L_p spaces. This study is useful in measurable dynamics, ergodic theory, classical mechanics, and Markov process. The composition operators on functional Banach spaces including Hardy spaces are studied in chapter III. This chapter makes contact with the theory of analytic functions of complex variables. Chapter IV presents a study of these operators on locally convex spaces of continuous functions making contact with topological dynamics. In the last chapter of the book, some applications of composition operators in isometries, ergodic theory, and dynamical systems are presented. An interesting interplay of algebra, topology, and analysis is displayed. This comprehensive and up-to-date study of composition operators on different function spaces should appeal to research workers in functional analysis and operator theory, post graduate students of mathematics and statistics, as well as to physicists and engineers. **Studies on**

Composition Operators and Function Spaces Marko Kotilainen, 2007 This survey part of the thesis contains some background to the series of studies on composition operators and function spaces. Bounded and compact composition operators are studied in analytic Q_k type spaces and in some real function spaces. So-called Bloch-Sobolev spaces are introduced. An asymptotic formula for the essential norm of the composition operator mapping into $Q_{k,p,q}$ is established. Carleson measures are studied in higher dimensions and used in the study of hyperbolic harmonic function spaces. A short summary of the articles is included. **Composition Operators on Spaces of Analytic Functions** Carl C. Cowen,

Jr., Barbara I. MacCluer, 1995-04-27 The study of composition operators lies at the interface of analytic function theory and operator theory. *Composition Operators on Spaces of Analytic Functions* synthesizes the achievements of the past 25 years and brings into focus the broad outlines of the developing theory. It provides a comprehensive introduction to the linear operators of composition with a fixed function acting on a space of analytic functions. This new book both highlights the unifying ideas behind the major theorems and contrasts the differences between results for related spaces. Nine chapters introduce the main analytic techniques needed: Carleson measure and other integral estimates, linear fractional models, and kernel function techniques, and demonstrate their application to problems of boundedness, compactness, spectra, normality, and so on, of composition operators. Intended as a graduate level textbook, the prerequisites are minimal. Numerous exercises illustrate and extend the theory. For students and non-students alike, the exercises are an integral part of the book. By including the theory for both one and several variables, historical notes, and a comprehensive bibliography, the book leaves the reader well grounded for future research on composition operators and related areas in operator or function theory.

Compact Weighted Composition Operators on Function Spaces Hiroyuki Takagi, 1992 *Operator Theory in*

Function Spaces Kehe Zhu, 2007 This book covers Toeplitz operators Hankel operators and composition operators on both the Bergman space and the Hardy space The setting is the unit disk and the main emphasis is on size estimates of these operators boundedness compactness and membership in the Schatten classes Most results concern the relationship between operator theoretic properties of these operators and function theoretic properties of the inducing symbols Thus a good portion of the book is devoted to the study of analytic function spaces such as the Bloch space Besov spaces and BMOA whose elements are to be used as symbols to induce the operators we study The book is intended for both research mathematicians and graduate students in complex analysis and operator theory The prerequisites are minimal a graduate course in each of real analysis complex analysis and functional analysis should sufficiently prepare the reader for the book Exercises and bibliographical notes are provided at the end of each chapter These notes will point the reader to additional results and problems Kehe Zhu is a professor of mathematics at the State University of New York at Albany His previous books include *Theory of Bergman Spaces* Springer 2000 with H Hedenmalm and B Korenblum and *Spaces of Holomorphic Functions in the Unit Ball* Springer 2005 His current research interests are holomorphic function spaces and operators acting on them

Studies on Composition Operators Rocky Mountain Mathematics Consortium, 1998 This book reflects the proceedings of the 1996 Rocky Mountain Mathematics Consortium conference on Composition Operators on Spaces of Analytic Functions held at the University of Wyoming The readers will find here a collection of high quality research and expository articles on composition operators in one and several variables The book highlights open questions and new advances in the classical areas and promotes topics which are left largely untreated in the existing texts In the past two decades the study of composition operators has experienced tremendous growth Many connections between the study of these operators on various function spaces and other branches of analysis have been established Advances in establishing criteria for membership in different operator classes have led to progress in the study of the spectra adjoints and iterates of these operators More recently connections between these operators and the study of the invariant subspace problem functional equations and dynamical systems have been exploited

Small Composition Operators on Analytic Vector-valued Function Spaces P. Liu, E. Saksman, Hans-Olav Tylli, 1996

Lectures on Analytic Function Spaces and their Applications Javad Mashreghi, 2023-10-13 The focus program on Analytic Function Spaces and their Applications took place at Fields Institute from July 1st to December 31st 2021 Hilbert spaces of analytic functions form one of the pillars of complex analysis These spaces have a rich structure and for more than a century have been studied by many prominent mathematicians They have essential applications in other fields of mathematics and engineering The most important Hilbert space of analytic functions is the Hardy class H^2 However its close cousins the Bergman space A^2 the Dirichlet space D the model subspaces K_t and the de Branges Rovnyak spaces H_b have also garnered attention in recent decades Leading experts on function spaces gathered and discussed new achievements and future venues of research on analytic function spaces their operators

and their applications in other domains With over 250 hours of lectures by prominent mathematicians the program spanned a wide variety of topics More explicitly there were courses and workshops on Interpolation and Sampling Riesz Bases Frames and Signal Processing Bounded Mean Oscillation de Branges Rovnyak Spaces Blaschke Products and Inner Functions and Convergence of Scattering Data and Non linear Fourier Transform among others At the end of each week there was a high profile colloquium talk on the current topic The program also contained two advanced courses on Schramm Loewner Evolution and Lattice Models and Reproducing Kernel Hilbert Space of Analytic Functions This volume features the courses given on Hardy Spaces Dirichlet Spaces Bergman Spaces Model Spaces Operators on Function Spaces Truncated Toeplitz Operators Semigroups of weighted composition operators on spaces of holomorphic functions the Corona Problem Non commutative Function Theory and Drury Arveson Space This volume is a valuable resource for researchers interested in analytic function spaces

Function Spaces Krzysztof Jarosz, 2007 This book consists of contributions by the participants of the Fifth Conference on Function Spaces held at Southern Illinois University in May of 2006 The papers cover a broad range of topics including spaces and algebras of analytic functions of one and of many variables and operators on such spaces L_p spaces spaces of Banach valued functions isometries of function spaces geometry of Banach spaces and other related subjects The goal of the conference was to bring together mathematicians interested in various problems related to function spaces and to facilitate the exchange of ideas between people working on similar problems Hence the majority of papers in this book are accessible to non experts Some articles contain expositions of known results and discuss open problems others contain new results

Function Spaces in Analysis Krzysztof Jarosz, 2015-07-28 This volume contains the proceedings of the Seventh Conference on Function Spaces which was held from May 20-24 2014 at Southern Illinois University at Edwardsville The papers cover a broad range of topics including spaces and algebras of analytic functions of one and of many variables and operators on such spaces spaces of integrable functions spaces of Banach valued functions isometries of function spaces geometry of Banach spaces and other related subjects

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