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Properties of multivalent functions associated with the integral operator defined by the hypergeometric function

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Abstract

In this paper, we introduce a new class of multivalent functions by using a generalized integral operator defined by the hypergeometric function. Some properties such as inclusion, radius problem and integral preserving are considered.

MSC: 30C45; 30C50

Keywords: Bazilevic functions; multivalent functions; integral operator; hypergeometric functions

1 Introduction and preliminaries

Let A_p denote the class of functions $f(z)$ of the form

$$f(z) = z^p + \sum_{n=p+1}^{\infty} a_n z^n \quad (p \in \mathbb{N} = \{1, 2, 3, \dots\}), \quad (1.1)$$

which are analytic in the open unit disc E . Also $A_1 = A$, the usual class of analytic functions defined in the open unit disc $E = \{z : |z| < 1\}$. A function $f \in A_p$ is a p -valent starlike function of order ρ if and only if

$$\operatorname{Re} \frac{zf'(z)}{f(z)} > \rho, \quad 0 \leq \rho < p, z \in E.$$

This class of functions is denoted by $S_p^*(\rho)$. It is noted that $S_p^*(0) = S_p^*$. Let $f(z)$ and $g(z)$ be analytic in E , we say $f(z)$ is subordinate to $g(z)$, written $f \prec g$ or $f(z) \prec g(z)$ if there exists a Schwarz function $w(z)$, $w(0) = 0$ and $|w(z)| < 1$ in E , then $f(z) = g(w(z))$. In particular, if g is univalent in E , then we have the following equivalence

$$f(z) \prec g(z) \iff f(0) = g(0) \quad \text{and} \quad f(E) \subset g(E).$$

For any two analytic functions $f(z)$ and $g(z)$ with

$$f(z) = \sum_{n=0}^{\infty} b_n z^{n+1} \quad \text{and} \quad g(z) = \sum_{n=0}^{\infty} c_n z^{n+1}, \quad z \in E,$$

Multivalent Functions

Shigeo Ozaki



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Table of Contents Multivalent Functions

1. Understanding the eBook Multivalent Functions
 - The Rise of Digital Reading Multivalent Functions
 - Advantages of eBooks Over Traditional Books
2. Identifying Multivalent Functions
 - 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 Multivalent Functions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Multivalent Functions
 - Personalized Recommendations
 - Multivalent Functions User Reviews and Ratings

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