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A CLASS OF UNIVALENT ANALYTIC FUNCTIONS INVOLVING THE RUSCHEWEYH DERIVATIVES OPERATOR AND HADAMARD PRODUCT

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Abstract

Let S denote the class of functions $f(z)$ analytic and univalent in the unit disc $E^* = \{z/|z| < 1\}$ and normalised by $f(0) = 0$ and $f'(0) = 1$. The objective of this paper is to introduce a new subclass of S based on Ruscheweyh derivative and Hadamard product. Coefficient estimate, extreme points, distortion theorem, closure theorem, radius of starlikeness and convexity, are determined for the functions in this class.

Key Words and Phrases : *Analytic function, Univalent function, Starlike function, Convex function, Close to convex function, Ruscheweyh derivative operator, Hadamard product.*

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