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CERTAIN SUBCLASSES OF SOME P-VALENT STARLIKE FUNCTIONS WITH NEGATIVE COEFFICIENTS INVOLVING RUSCHEWEYH DERIVATIVE

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Abstract

In this paper, we have introduced and investigated a new subclass of multivalent functions by using the Hadamard product structure to obtain new linear operator involving Ruscheweyh derivative that defined in the open unit disk. We have obtained coefficient estimates, distortion theorem, inclusion relation and criteria of starlikeness and convexity for functions which belong to our class. Relevant connections of the results presented here with those obtained in earlier works are also pointed out.

Key Words : *Multivalent function, Starlike and Convex function, Hadamard product.*