

ON CERTAIN FAMILIES OF ANALYTIC FUNCTIONS WITH NEGATIVE COEFFICIENTS

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Abstract

We introduce a new subclass of analytic functions with negative coefficients defined by salagean operators D_n and D_{n+m} . In this paper we give some properties of functions in this new class and obtain numerous sharp results including coefficient estimates, distortion theorems, closure theorems and modified Hadamard products of several functions belonging to the class. We also obtain radii of close to convexity, starlikeness and convexity for the functions belonging to the class and consider integral operators associated with functions belonging to the new class.

Key Words : Analytic, salagean Operator, Modified Hadamard product, Negative coefficients.