Mathematical
Inequalities
& Applications

Volume 12, Number 2 (2009), 335–349

NEIGHBORHOODS OF A CERTAIN CLASS OF p–VALENT FUNCTIONS WITH NEGATIVE COEFFICIENTS DEFINED BY USING A DIFFERENTIAL OPERATOR

HALIT ORHAN

Abstract. In this present paper, by making use of the familiar concept of neighborhoods of p-valent functions, the author prove coefficient bounds and distortion inequalities, and associated inclusion relations for the (n, δ)-neighborhoods of a class of p-valently analytic functions with negative coefficients, which is defined by means of a certain non-homogeneous Cauchy-Euler differential equation. Relevant connections of some of the results obtained in this paper with those in earlier works are also provided.

Mathematics subject classification (2000): 30C45.
Keywords and phrases: analytic function, p-valent functions, Cauchy-Euler differential equation, inclusion relations, (n, δ)-neighborhood, starlike and convex functions, distortion inequalities.

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