

HANKEL DETERMINANT FOR THE SUBCLASSES OF UNIVALENT FUNCTIONS I

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Abstract

Let $f(z) = z + \sum_{n=2}^{\infty} a_n z^n$ be an analytic and univalent function in the unit disk $D = \{z : |z| < 1\}$. The purpose of the present paper is to introduce the functional $|a_2 a_4 - a_3^2|$. We give sharp upper bounds for $|a_2 a_4 - a_3^2|$ for certain subclasses of univalent functions.

Keyword : Analytic, univalent, Hankel determinant.