SOME COEFFICIENT INEQUALITIES RELATED TO THE HANKEL DETERMINANT FOR STRONGLY STARLIKE FUNCTIONS OF ORDER ALPHA

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Abstract. In the present paper, the estimate of the Hankel determinant

\[ H_{3,1}(f) := \begin{vmatrix} a_1 & a_2 & a_3 \\ a_2 & a_3 & a_4 \\ a_3 & a_4 & a_5 \end{vmatrix} \]

over the class \( S_*^{\alpha}, \ 0 < \alpha \leq 1 \), of analytic functions \( f \) with \( a_n := f^{(n)}(0)/n!, \ n \in \mathbb{N} \cup \{ 0 \} \), such that \( |\arg(zf'(z)/f(z))| < \alpha \pi / 2 \) for \( z \in \mathbb{D} := \{ z \in \mathbb{C} : |z| < 1 \} \), is examined.


Keywords and phrases: Univalent functions, strongly starlike functions of order alpha, Hankel determinant.

REFERENCES


