

DISTORTION INEQUALITIES FOR RUSCHEWEYH DERIVATIVES

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Abstract. Let \mathcal{A} denote the class of functions $f(z)$ which are analytic in the open unit disk \mathcal{U} with $f(0) = 0$ and $f'(0) = 1$. For $f(z) \in \mathcal{A}$, the Ruscheweyh derivative of order λ is denoted by $\mathcal{D}^\lambda f(z)$. The object of the present paper is to derive several distortion inequalities involving $\mathcal{D}^\lambda f(z)$ for certain classes of univalent functions $f(z)$ by applying known properties of generalized hypergeometric functions.

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