

CONVOLUTIONS AND HÖLDER-TYPE INEQUALITIES FOR A CERTAIN CLASS OF ANALYTIC FUNCTIONS

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Abstract. Applying the coefficient inequalities for functions $f(z)$ belonging to a certain class $\mathcal{M}\mathcal{D}(\alpha, \beta)$ of normalized analytic functions in the open unit disk $\mathbb{U}$, two subclasses $\mathcal{M}_1(\alpha, \beta)$ and $\mathcal{M}_2(\alpha, \beta)$ are defined. The object of the present paper is to derive some properties for functions $f(z)$ in the classes $\mathcal{M}_1(\alpha, \beta)$ and $\mathcal{M}_2(\alpha, \beta)$ involving their generalized convolution by utilizing methods based upon the Hölder-type inequalities.

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