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Some Properties of a New Class of Analytic Functions Defined in Terms of a Hadamard Product

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Abstract: In this paper we introduce a new class $\mathcal{H}(\phi, \alpha, \beta)$ of analytic functions which is defined by means of a Hadamard product (or convolution) of two suitably normalized analytic functions. Several properties like, the coefficient bounds, growth and distortion theorems, radii of starlikeness, convexity and close-to-convexity are investigated. We further consider a subordination theorem, certain boundedness properties associated with partial sums, an integral transform of a certain class of functions, and some integral means inequalities. Several interesting consequences of our main results are also pointed out.



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