

## CERTAIN CLASSES OF ANALYTIC FUNCTIONS WITH NEGATIVE COEFFICIENTS ASSOCIATED WITH A CONVOLUTION STRUCTURE

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*Abstract.* Making use of a convolution structure, we introduce a new class of analytic functions  $\mathbb{P}\mathbb{T}_g(\lambda, \alpha, \beta, \gamma)$  defined in the open unit disc and investigate its various characteristics. Further we obtained distortion bounds, extreme points and radii of close-to-convexity, starlikeness and convexity for functions belonging to the class  $\mathbb{P}\mathbb{T}_g(\lambda, \alpha, \beta, \gamma)$ .

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