

**CERTAIN SUBCLASSES OF ANALYTIC AND MULTIVALENT
FUNCTIONS WITH NEGATIVE COEFFICIENTS IN THE OPEN
UNIT DISC**

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Abstract

Let S be the class of functions analytic and multivalent in the open unit disc given by $f(z) = z^p + \sum_{k=1+p}^{\infty} a_k z^k$ a_k a complex number. In this paper we have studied three classes $S_s^p P(\alpha, \beta, \delta)$, $S_c^p P(\alpha, \beta, \delta)$ and $S_{sc}^p P(\alpha, \beta, \delta)$ consisting of analytic function with negative coefficients and starlike with respect to symmetric points, starlike with respect to conjugate points, starlike with respect to symmetric conjugate points respectively. We discuss coefficients inequality, Growth and Distortion, Extreme points, convexity for the these classes.

Key Words : *Analytic functions, Multivalent functions, Functions starlike with respect to symmetric points, Growth and Distortion bounds, Extreme points, Convexity.*

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