

## A NOTE ON $p$ - VALENT STARLIKE FUNCTIONS OF COMPLEX ORDER

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### Abstract

Let  $A_p$  denote the class of analytic functions defined in the unit disc  $U = \{z : |z| < 1\}$  and  $\Omega$  denote the class of functions such that  $\omega(0) = 0$  and  $|\omega(z)| < 1$ . For arbitrary complex numbers  $A$  and  $B$  we define the classes  $PC(A, B, p, \alpha)$  and  $S_{\alpha p}(A, B, b)$  and certain coefficient inequalities, Koebe domain, distortion theorem and radius of starlikeness for functions in these classes are studied.

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**Key Words:** *p-valent functions, Koebe domain, Distortion theorem, Radius of starlikeness, Coefficient estimates and Subordination.*

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