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CERTAIN CLASSES OF ANALYTIC AND MULTIVALENT FUNCTIONS WITH NEGATIVE COEFFICIENTS

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Abstract: We introduce a subclass $K_{n+p-1}^*(A, B)$ of analytic and p -valent functions with negative coefficients. Coefficient estimates, some properties, distortion theorems and closure theorems of functions belonging to the class $K_{n+p-1}^*(A, B)$ are determined. Also we obtain radii of close-to-convexity, starlikeness and convexity for the class $K_{n+p-1}^*(A, B)$. We also obtain class preserving integral operator of the form $F(z) = \frac{c+p}{z^c} \int_0^z t^{c-1} f(t) dt$, $c > -p$ for the class $K_{n+p-1}^*(A, B)$. Conversely when $F(z) \in K_{n+p-1}^{*star}(A, B)$ radius of p -valence of $f(z)$ defined by the above equation is obtained.



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