## CERTAIN PROPERTIES OF p-VALENT FUNCTIONS WITH ALTERNATING COEFFICIENTS

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## Abstract

The object of the present paper is to derive some convolution properties of functions of the type  $f(z)=z^p+\sum\limits_{k=1}^{\infty}(-1)^{p+k}a_{p+k}z^{p+k}$  belonging to the classes  $M^*(A,B,p,\alpha)$  and  $C(A,B,p,\alpha)$  of multivalent functions. We also obtain certain coefficient bounds. These results generalize the results of Khairnar, Meena More, Silverman, Padamanabhan and Ganeshan.

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Key Words and Phrases: Convolution, p-valent functions, Cauchy-Schwarz inequality, Alternating series.

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