ON CERTAIN SUBCLASSES OF MEROMORPHICALLY MULTIVALENT FUNCTIONS INVOLVING A LINEAR OPERATOR

J. Patel and A. Ku. Palit

Abstract. The purpose of the present paper is to derive some inclusion relationships and other interesting properties of a certain subclass $\Sigma^+(a,c,A,B)$ of meromorphically p-valent functions with positive coefficients which are defined by means of a linear operator. The familiar concept of neighborhood of analytic functions is extended and applied to meromorphically p-valent functions considered here. We also derive many interesting results on the Hadamard product of functions belonging to the class $\Sigma^+(a,c,A,B)$.


Keywords and phrases: Meromorphic functions, differential subordination, Hadamard product (or convolution), neighborhoods, linear operator.

REFERENCES