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ON CERTAIN SUBCLASSES OF ANALYTIC FUNCTIONS ASSOCIATED WITH $(p-q)-$ WANAS OPERATOR

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Abstract: In this research article, we have defined new subclasses $GW^{\sigma,\delta}_{s,t,p,q}(\alpha,\beta)$ and $TGW^{\sigma,\delta}_{s,t,p,q}(\alpha,\beta)$ of analytic functions involving Wanas Operator. We have discussed coefficients conditions for these introduced subclasses. Further properties such as partial sum and integral means results are also investigated for these subclasses.

Keywords and Phrases: $(p-q)-$ Wanas Operator, coefficient bounds, partial sums, integral means.

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1. Introduction

Let A denote the class of all analytic functions in the open unit disk $U = \{z \in C : |z| < 1\}$ with normalization $f(0) = f'(0) - 1 = 0$ of the form

$$f(z) = z + \sum_{k=2}^{\infty} b_k z^k, z \in U. \tag{1.1}$$

Denote by S, the subclass of A consisting functions that are univalent, T as the subclass of A consisting functions of the form

$$f(z) = z - \sum_{k=2}^{\infty} b_k z^k, b_k \geq 0, z \in U \tag{1.2}$$