STRONG DIFFERENTIAL SUBORDINATIONS AND SUPERORDINATIONS USING A NEW INTEGRAL OPERATOR

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Abstract. In this paper we study certain strong differential subordinations and superordi-
nations obtained with a new integral operator introduced in [?] as follows $L_m^m f(z, \zeta) = \frac{\gamma + 1}{\gamma} \int_z^\infty \frac{L_m^m - 1}{f(t, \zeta)^{\gamma - 1}} \, dt$, $f(z, \zeta) \in A_n$.