Olatunji, S. O.; Adeniyi, M. A.; Dutta, H.  
Subclasses of bi-Sakaguchi function associated with \( q \)-difference operator.  
(English)  

Summary: In this work, the authors introduce a subclass \( \zeta_\Sigma b, \phi \) in the open unit disk which associated with \( q \)-difference operator and satisfy some subordination conditions. The estimates for \( |a_2| \) and \( |a_3| \) are obtained by making use of Taylor-Maclaurin series. Our results serve as a new generalization in this direction and still pave way for researchers to study this class by means of the Chebyshev polynomials and Sigmoid functions.

MSC:
- 30C45 Special classes of univalent and multivalent functions of one complex variable (starlike, convex, bounded rotation, etc.)
- 30C50 Coefficient problems for univalent and multivalent functions of one complex variable

Keywords:
- analytic function;
- univalent function;
- \( q \)-derivative operator;
- subordination;
- coefficient bounds;
- bi-Sakaguchi function

Full Text: Link

References:
[18] C. Pommerenke, Univalent Functions, Vandenhoeck and Ruprecht, Gottingen, 1975

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