Summary: The main object of this paper is to provide necessary and sufficient conditions for the generalized Struve functions of first kind to be in the classes $S(k, \lambda)$ and $C(k, \lambda)$. Furthermore, we give conditions for the integral operator $L(m, c, z) = \int_0^z (2 - u_p(t))dt$ to be in the class $C^*(k, \lambda)$. Several collaries and consequences of the main results are also considered.

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

Keywords: analytic functions; Hadamard product; Bessel functions; Struve functions

Full Text: Link

References:

[19] B.A. Frasin, Tariq Al-Hawary and Feras Yousef, Necessary and sufficient conditions for hypergeometric functions to be in a...

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