Obradović, Milutin; Owa, Shigeyoshi
An application of differential subordinations. II. (English) Zbl 0711.30023

[For part I see Math. Nachr. 147, 61-64 (1990; reviewed above).]

Let $A$ denote the family of analytic functions $p$ defined in the unit disc, with $p(0) = 1$. The basic result of this work is a sufficient condition for the inequality $|\arg p(z)| < \gamma(\pi/2)$ to hold, where $\gamma \leq 1$, $p \in A$. The method of differential subordinations is used in the proof of the above result.

Reviewer: St.Walczak

MSC:

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

30C80 Maximum principle, Schwarz’s lemma, Lindelöf principle, analogues and generalizations; subordination

30C70 Extremal problems for conformal and quasiconformal mappings, variational methods

Keywords:

differential subordinations