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Volume 7, Issue 3, Article 117

Fekete-Szegö Functional for some Subclass of Non-Bazilevic Functions

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Keywords: Analytic functions, Starlike functions,

Subordination, Coefficient problem, Fekete-Szegö

inequality.

 Date Received:
 18/11/05

 Date Accepted:
 24/03/06

Subject Codes: Primary 30C45.

Editors: Alexandru Lupas (1942-2007),

Abstract: In this present investigation, the authors obtain a sharp Fekete-Szegö's inequality for certain normalized analytic functions f(z) defined on the open

unit disk for which $\left(1+\beta\right)\left(\frac{z}{f(z)}\right)^{\alpha}-\beta f'(z)\left(\frac{z}{f(z)}\right)^{1+\alpha}$,

 $(\beta\in\mathbb{C},0<\alpha<1)$ lies in a region starlike with respect to $\,1$ and is

symmetric with respect to the real axis. Also, certain applications of our results for a class of functions defined by convolution are given. As a special case of this result, Fekete-Szegö's inequality for a class of functions defined through fractional derivatives is also obtained.

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