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On the Fekete-Szegö Problem for Some Subclasses of Analytic Functions

Authors: T.N. Shanmugam, S. Sivasubramanian,

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

which $\frac{zf'(z)+\alpha z^2f''(z)}{(1-\alpha)f(z)+\alpha zf'(z)}$ $(\alpha\geq0)$ lies in a region starlike with respect to

1 and is symmetric with respect to the real axis. Also certain applications of the main result 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 obtained. The Motivation of this paper is to give a generalization of the Fekete-Szegö inequalities obtained by Srivastava and Mishra .

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