ON THE FEKETE-SZEGÖ PROBLEM FOR
CERTAIN ANALYTIC FUNCTIONS
(Masalah Fekete-Szegö bagi Fungsi Analisis Tertentu)

IMRAN *FAISAL* & *MASLINA* DARUS

ABSTRACT

Let $f(z) = z + \sum_{n=2}^{\infty} a_n z^n$ be an analytic function in the open unit disk. A sharp upper bound is obtained for $\left| a_3 - \mu a_2^2 \right|$ for the class $CS_\alpha(\beta)$ of strongly close-to-convex functions of order β and type α, for $\alpha, \beta \geq 0$.

Keywords: univalent; starlike function; strongly close-to-convex function

ABSTRAK

Andaikan $f(z) = z + \sum_{n=2}^{\infty} a_n z^n$ suatu fungsi analisis dalam cakera unit terbuka. Suatu batas atas terbaik diperoleh untuk $\left| a_3 - \mu a_2^2 \right|$ untuk kelas $CS_\alpha(\beta)$ bagi fungsi dekat-dengan-cembung kuat peringkat β jenis α, untuk $\alpha, \beta \geq 0$.

Kata kunci: univalent; fungsi bak-bintang; fungsi dekat-dengan-cembung kuat

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School of Mathematical Sciences, Faculty of Science and Technology
Universiti Kebangsaan Malaysia, 43600 UKM Bangi
Selangor D.E., MALAYSIA
E-mail: imran_faisall@yahoo.com, maslina@ukm.my*

*Corresponding author