

GENERALISATION OF CLOSE-TO-CONVEX OF COMPLEX ORDER (Pengitlakan Dekat-kepada-Cembung bagi Peringkat Kompleks)

KHALIDA INAYAT NOOR & SAQIB HUSSAIN

ABSTRACT

Using the concept of operator $I_{\lambda, \mu}$ ($\lambda > -1, \mu \geq 0$), we study some new classes of analytic functions. Some inclusion relationships are investigated. We also show that these classes are closed under convolution with a convex function. An application of the results is also discussed.

Keywords: analytic functions; close-to-convex functions; convolution; integral operator

ABSTRAK

Dengan menggunakan konsep pengoperasi $I_{\lambda, \mu}$ ($\lambda > -1, \mu \geq 0$), dikaji beberapa kelas baru bagi fungsi analisis. Beberapa perhubungan rangkuman diselidiki. Ditunjukkan juga bahawa kelas-kelas ini tertutup di bawah konvolusi dengan suatu fungsi cembung. Suatu aplikasi hasil yang diperoleh juga dibincangkan.

Kata kunci: fungsi analisis; fungsi dekat-kepada-cembung; konvolusi; pengoperasi kamiran

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Department of Mathematics
COMSATS Institute of Information Technology
Islamabad, PAKISTAN
*E-mail: Khalidainayat@comsats.edu.pk, Saqib_math@yahoo.com**

* Corresponding author