

INCLUSION PROPERTIES FOR CERTAIN SUBCLASSES OF ANALYTIC FUNCTIONS ASSOCIATED WITH A MULTIPLIER TRANSFORMATION
(Sifat Rangkuman bagi beberapa Subkelas Fungsi Analisis Bersekutu dengan Penjelmaan Berganda)

AABED MOHAMMED & MASLINA DARUS

ABSTRACT

Let f be the normalised analytic function in the open unit disk U . In the present paper, we define a new operator related to generalised Hurwitz–Lerch zeta function which involved the convolution (Hadamard product). Via this operator, we introduce new classes of functions and derive some interesting properties for these classes.

Keywords: Hurwitz–Lerch zeta function; Hadamard product; multiplier transformation; strongly convex and strongly starlike

ABSTRAK

Andaikan f fungsi analisis ternormal dalam cakera unit U . Dalam makalah ini, pengoperasi baru berkenaan dengan fungsi Hurwitz–Lerch zeta teritlak yang melibatkan konvolusi (hasil darab Hadamard) diperkenalkan. Menerusi pengoperasi ini, kelas fungsi baru diperkenalkan dan beberapa sifat menarik diperoleh bagi kelas tersebut.

Kata kunci: fungsi Hurwitz–Lerch zeta; hasil darab Hadamard; penjelmaan multiplier; cembung kuat dan bakbintang kuat

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

* Corresponding author