

NEW SUBCLASS OF HARMONIC UNIVALENT FUNCTIONS DEFINED BY A GENERALISED DIFFERENTIAL OPERATOR

(Subkelas Baharu Fungsi Univalen Harmonik yang Ditakrif
oleh Pengoperasi Pembeza Teritlak)

SALMA FARAJ RAMADAN & MASLINA DARUS

ABSTRACT

Let S_H denote the class of functions $f = h + \overline{g}$ which are harmonic univalent and sense preserving in the unit disk U . Earlier we have introduced a class of harmonic functions defined by a generalised differential operator. In this paper we introduce a new subclass of this class and obtain results on coefficient bounds, distortion and extreme points.

Keywords: Univalent functions; harmonic functions; generalised differential operator

ABSTRAK

Andaikan S_H melambangkan kelas fungsi $f = h + \overline{g}$ harmonik univalen dan kekal orientasi dalam cakera unit U . Terlebih dahulu telah diperkenalkan suatu kelas fungsi harmonik yang ditakrif oleh suatu pengoperasi pembeza teritlak. Dalam makalah ini diperkenalkan pula suatu subkelas bagi kelas tersebut, dan mendapatkan keputusan mengenai batas-batas pekali, erotan dan titik-titik ekstrem.

Kata kunci: Fungsi univalen; fungsi harmonik; pengoperasi pembeza teritlak

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S. Faraj Ramadan & Maslina Darus

*School of Mathematical Sciences
Faculty of Science and Technology
University Kebangsaan Malaysia
43600 UKM Bangi
Selangor DE, MALAYSIA
E-mail: salma_naji2010@yahoo.com, maslina@ukm.my**

*Corresponding author