

## NEW SUBCLASSES OF ANALYTIC AND $m$ -FOLD SYMMETRIC BI-UNIVALENT FUNCTIONS DEFINED BY DIFFERENTIAL OPERATOR

(Subkelas Baharu Fungsi Analisis dan Bi-Univalen Simetri  $m$ -Lipat yang Ditakrif oleh Pengoperasi Pembeza)

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### ABSTRACT

By using generalized differential operator, we introduce two new subclasses of analytic and  $m$ -fold symmetric bi-univalent functions in the open unit disk  $U$ . We also find coefficient estimates of  $|a_2|$  and  $|a_3|$  for these new subclasses.

**Keywords:** Differential operator;  $m$ -fold symmetry; bi-univalent functions; coefficient bounds

### ABSTRAK

Dengan menggunakan pengoperasi pembeza, diperkenalkan dua subkelas baharu fungsi analisis dan bi-univalen simetri  $m$ -lipat dalam cakera unit terbuka  $U$ . Anggaran pekali bagi  $|a_2|$  dan  $|a_3|$  untuk subkelas fungsi baharu ini turut diperoleh.

**Kata kunci:** Pengoperasi pembeza; simetri  $m$ -lipat; fungsi bi-univalen; batas pekali

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