

## Quasi-convex functions with respect to symmetric conjugate points

### ABSTRACT

Let  $C_{sc}(A, B)$  denote the class of functions  $f$  which are analytic in an open unit disc  $\mathcal{D} = \{z: |z| < 1\}$  and satisfying the condition  $\frac{2(zf'(z))'}{(f(z)-f(-\bar{z}))' } < \frac{1+Az}{1+Bz}$ ,  $-1 \leq B < A \leq 1, z \in \mathcal{D}$ . In this paper, we consider the class  $K_{sc}^*(A, B)$  consisting of analytic functions  $f$  and satisfying  $\frac{(zf'(z))'}{(g(z)-\bar{g}(-\bar{z}))' } < \frac{1+Az}{1+Bz}$ ,  $g \in C_{sc}(A, B)$ ,  $-1 \leq B < A \leq 1, z \in \mathcal{D}$ . The aims of paper are to determine coefficient estimates and distortion bounds for the class  $K_{sc}^*(A, B)$ .