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## On Brennan's conjecture for a special class of functions

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### Abstract

In this paper, we prove Brennan's conjecture for conformal mappings  $f$  of the disk  $\{z : |z| < 1\}$  assuming that the Taylor coefficients of the function  $\log(zf'(z)/f(z))$  at zero are nonnegative. We also obtain inequalities for the integral means over the circle  $|z| = r$  of the squared modulus of the function  $zf'(z)/f(z)$ . © 2005 Springer Science+Business Media, Inc.

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### Keywords

Brennan's conjecture, Conformal mapping, Fractal boundary, Koebe function, Univalent analytic function