

UNIValENCE OF AN INTEGRAL OPERATOR

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**Abstract.** In this paper we consider the class of univalent functions defined by the condition  $\left| \frac{z^2 f'(z)}{f^2(z)} - 1 \right| < 1, z \in U$ , where  $f(z) = z + a_2 z^2 + \dots$ , is an analytic function in the unit disc  $U = \{z \in \mathbb{C} : |z| < 1\}$ . We present univalence conditions for the operator

$$G_{\alpha, n}(z) = \left( (n(\alpha - 1) + 1) \int_0^z g_1^{\alpha-1}(t) \dots g_n^{\alpha-1}(t) dt \right)^{\frac{1}{n(\alpha-1)+1}}.$$

**MSC 2000.** 30C45.

**Key words.** Integral operator, unit disc, univalent functions.

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Received June 10, 2003

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