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On the coefficients of the quasi-starlike maps of the unit polydisk in $C^2$. (English)
Zbl 0719.32007

Let $w=(w_1,w_2)$ be a map of the unit polydisk in $C^2$ into $C^2$ with the property $w(0)=0$ and
\[ \text{Re}(w_i(z_1,z_2)/z_i) \geq 0 \text{ for } 0 < \max(|z_1|,|z_2|) = |z_i|, \quad i = 1,2. \]

Denote the class of all such functions by $P_0$.

The class $G^M_2$ consists of maps $g$ of the unit polydisk in $C^2$ into $C^2$ satisfying the condition
\[ f(g(z)) = (1/M)f(z), \]
where $f$ is starlike (and properly normalized).

The authors examine the connections between the coefficients of functions of $G^M_2$ and $P_0$.

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MSC:
32A30 Other generalizations of function theory of one complex variable
30C45 Special classes of univalent and multivalent functions of one complex variable (starlike, convex, bounded rotation, etc.)

Keywords:
quasi-starlike maps; coefficient connections; unit polydisk