EXTREME POINTS AND SUPPORT POINTS FOR MAPPINGS WITH $g$-PARAMETRIC REPRESENTATION IN $\mathbb{C}^n$

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Abstract. We obtain various results related both to extreme points and to support points for the compact family $S_0^g(B^n)$, where $S_0^g(B^n)$ is the family of normalized biholomorphic mappings which have $g$-parametric representation on the unit ball in $\mathbb{C}^n$, and $g$ is a univalent function on the unit disc $U$ with $g(0) = 1$ and which satisfies certain natural assumptions. Some applications are also obtained. Finally, we are concerned with extreme points and support points associated with certain extension operators that preserve Loewner chains.


Key words. Carathéodory family, extreme point, Loewner chain, parametric representation, subordination, support point.

REFERENCES


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