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Second Order Differential Subordinations of Holomorphic Mappings on Bounded Convex Balanced Domains in \mathbb{C}^n

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Abstract:

In this paper, we obtain some second order differential subordinations of holomorphic mappings on a bounded convex balanced domain Ω in \mathbb{C}^n . These results imply some first order differential subordinations of holomorphic mappings on a bounded convex balanced domain Ω in \mathbb{C}^n . When Ω is the unit disc in the complex plane \mathbb{C} , these results are just ones of Miller and Mocanu et al. about differential subordinations of analytic functions on the unit disc in the complex plane \mathbb{C} .



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