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α-accessible Domains, a Nonsmooth Case

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This paper continues the study of α-accessible domains in $\mathbb{R}^n$. They are starlike domains and satisfy cone condition which is important for applications. Conditions of α-accessibility of domain, defined by the inequality $F(x) < 0$, is obtained for a continuous function F in $\mathbb{R}^n$. Thus these conditions are written in the form of inequalities for the directional derivatives; necessary and sufficient conditions differ only in the sign of equality in these inequalities. We obtain new results even in the case where $\alpha = 0$ (the case of starlike domains).

Key words: cone condition, α-accessible domains, starlike sets.

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