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Stability of Solution of a Class of Quasilinear Elliptic Equations

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摘要 In this paper, using capacity theory and extension theorem of Lipschitz functions we first discuss the uniqueness of weak solution of nonhomogeneous quasilinear elliptic equations $\operatorname{div} A_p(x, u) + a_p(x, u) = f(x)$ in space $W(\cdot, p)(Q)$, which is bigger than $W(\cdot, p)(Q)$. Next, using reverse Hölder inequality we prove that if P_c is uniformly p -thick, then there exists a neighborhood U of p , such that for all $t \in U$, the weak solutions of equation corresponding t are bounded uniformly. Finally, we get the stability of weak solutions on exponent p .

关键词 [nonhomogenous quasilinear elliptic equations](#)

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Key words [nonhomogenous quasilinear elliptic equations](#)

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