

A quasilinear elliptic Dirichlet problem having two positive solutions

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For a class of second order quasilinear elliptic equations we establish the existence of two non-negative weak solutions of the Dirichlet problem on a bounded domain, Ω . Solutions of the boundary value problem are critical points of C^1 -functional on $H_0^1(\Omega)$. One solution is a local minimum and the other is of mountain pass type.