A multiplicity result for a class of equations of p-Laplacian type with sign-changing nonlinearities

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Abstract: Using variational arguments we study the non-existence and multiplicity of non-negative solutions for a class equations of the form -div(a(x, u)) = λf(x, u) in Ω, where Ω is a bounded domain in R^N, N ≥ 3, f is a sign-changing Carathéodory function on Ω × [0, +∞) and λ is a positive parameter. © 2009 Glasgow Mathematical Journal Trust.

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