

# Existence and multiplicity results for parameter-dependent quasilinear elliptic equations

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By virtue of an abstract local minimum result for functionals whose critical points are attained in certain open level sets, see for instance [1], we are able to establish existence and multiplicity results for a quasilinear elliptic problem depending on a parameter  $\lambda$ .

The variational approach adopted, combined with sub-super solutions and truncation techniques, allows to explicitly describe intervals for the parameter  $\lambda$  for which the nonlinear problem under consideration admits nontrivial constant-sign as well as nodal (sign-changing) solutions, without to assume asymptotic conditions at infinity on the nonlinearities.

## *References*

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