

Multiplicity of Unstable Nontrivial Solutions in Semilinear Elliptic Indefinite Weight Boundary Value Problems

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We discuss the existence and multiplicity of unstable nontrivial solutions about the following problems: $-\Delta u = \lambda g(x)f(u)$ in Ω , $(1 - \alpha)\frac{\partial u}{\partial n} + \alpha u = 0$ on $\partial\Omega$. Here, Ω is a bounded open region in R^n , with the smooth boundary $\partial\Omega$.