## Existence and multiplicity results for ordinary p-Laplacian systems

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We survey some existence and multiplicity results for nonlinear differential systems of the form

$$-(|u'|^{p-2}u')' = f(t,u), \quad \text{in } [0,T], \tag{1}$$

submitted to the general boundary condition

$$((|u'|^{p-2}u')(0), -(|u'|^{p-2}u')(T)) \in \partial j(u(0), u(T)).$$
(2)

Here,  $p \in (1, \infty)$  is fixed,  $j : \mathbb{R}^N \times \mathbb{R}^N \to (-\infty, +\infty]$  is proper, convex and lower semicontinuous and  $f : [0, T] \times \mathbb{R}^N \to \mathbb{R}^N$  is a Carathéodory mapping. For problem (1), (2) we use a fixed point technique, while in the potential case  $f(t, u) = \nabla F(t, u)$  our approach is a variational one. Some examples of applications are also given.