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The sub-supersolution method and extremal solutions for quasilinear hemivariational inequalities. (English) [Zbl 1164.35301](#)

Differ. Integral Equ. 17, No. 1-2, 165-178 (2004).

Summary: We generalize the sub-supersolution method known for weak solutions of single and multivalued equations to quasilinear elliptic hemivariational inequalities. We first introduce the fundamental notion of sub- and supersolutions and prove on this basis existence, comparison, compactness, and extremality results for the hemivariational inequalities under consideration.

MSC:

[35A15](#) Variational methods applied to PDEs

[35B05](#) Oscillation, zeros of solutions, mean value theorems, etc. in context of PDEs

[35J20](#) Variational methods for second-order elliptic equations

[49J52](#) Nonsmooth analysis

Cited in **14** Documents

Keywords:

sub-supersolution method