

**Krejčí, Pavel; Laurençot, Philippe****Generalized variational inequalities.** (English) Zbl 1001.49014

J. Convex Anal. 9, No. 1, 159-183 (2002).

Summary: We consider a rate independent evolution variational inequality with an arbitrary convex closed constraint  $Z$  in a Hilbert space  $X$ . The main results consist in proving that it is well-posed in the Young integral setting in the space of functions of essentially bounded variation for every  $Z$  and in the space of regulated functions provided  $0$  lies in the interior of  $Z$ .

**MSC:**

49J40 Variational inequalities  
34C55 Hysteresis for ordinary differential equations  
49K40 Sensitivity, stability, well-posedness  
26A45 Functions of bounded variation, generalizations

Cited in 13 Documents**Keywords:**

hysteresis; play operator; evolution variational inequality; Young integral; essentially bounded variation; regulated functions