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Meir Shillor* (shillor@oakland.edu). *Variational-hemivariational quasistatic viscoelastic problem with normal compliance, friction and material damage.*

The talk describes a model for quasistatic frictional contact between a viscoelastic body and a reactive foundation. The constitutive law is assumed to be nonlinear as it contains material damage effects described by a parabolic differential inclusion. The process of contact is described by the normal compliance condition and a subdifferential frictional condition. A variational-hemivariational formulation of the problem is shown and the existence and uniqueness of its solution is shortly discussed. The proof is based on a surjectivity result for pseudomonotone coercive operators and a fixed point argument. (Received January 27, 2016)