

Global spatial regularity for elasticity models with nonsmooth constraints

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For the analysis of strongly coupled material models it is useful to have deeper insight into the spatial regularity properties of the involved quantities like displacement fields or internal variables. In this lecture we will discuss some recent results for non-smooth situations with a special focus on time-dependent damage models in the small strain regime. The talk relies on joint results with R. Rossi (University of Brescia) and C. Zanini (Politecnico di Torino).