98. Zvi Artstein, **On impulses induced by singular perturbations.** In: Optimal Control, Stabilization, and Nonsmooth Analysis, de Queiroz, Malisoff and Wolenski, Eds., Lecture Notes in Control and Information Sciences 301, Springer-Verlag, Heidelberg, 2004, pp.61-72.

Abstract. The possibility that a singularly perturbed controlled dynamics generates impulses in a slow dynamics coupled to it, is investigated. A scheme for the analysis and generation of such impulses is offered in the case where the control affects the perturbed dynamics only. Examples are displayed along with general comments on the underlying conditions.

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