96. Zvi Artstein, **Controlled switching in singularly perturbed systems.** Proceedings of the 42nd IEEE Conference on Decision and Control, Maui, Hawaii, USA, 2003, pp. 2756-2761.

**Abstract.** When slow and fast motions are coupled in a singularly perturbed control system, abrupt changes in the fast flow may result in switching between modes in the slow dynamics. Such changes may be desirable due to design specifications or considerations of optimality. The paper examines the geometric structure that yields such switchings and offers conditions that assure the stability of the design.

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