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The C stability of slow manifolds for a system of singularly perturbed evolution equations

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Abstract: In this paper we investigate the singular limiting behavior of slow invariant manifolds for a system of singularly perturbed evolution equations in Banach spaces. The aim is to prove the C stability of invariant manifolds with respect to small values of the singular parameter.

Keywords: singularly perturbed evolution equations, C stability of inertial manifolds

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