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Nonlinear Singular Perturbation Phenomena Theory

The linear theory for such problems is incredibly complicated already, and at the present time there appears to be little hope for any kind of general nonlinear theory. Our results for vector boundary value problems, even those admitting higher dimensional maximum principles in the form of invariant regions, are also far from complete.

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O'Malley Jr., R. E.: 'On the Simultaneous Use of Asymptotic and Numerical Methods to Solve Nonlinear Two Point Problems with Boundary and Interior Layers', in U. M. Ascher and R. D. Russell (eds.), *Numerical Boundary Value ODEs*, Birkhauser, Boston, pp. 149–172 (1985). [Google Scholar](#)

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Singular perturbation theory is a rich and ongoing area of exploration for mathematicians, physicists, and other researchers. The methods used to tackle problems in this field are many. The more basic of these include the method of matched asymptotic expansions and WKB approximation for spatial problems, and in time, the Poincaré–Lindstedt method, the method of multiple scales and periodic averaging.

Singular perturbation - Wikipedia

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Singular perturbation theory concerns the study of problems featuring a parameter for which the solutions of the problem at a limiting value of the parameter are different in character from the limit of the solutions of the general problem; namely, the limit is singular. In contrast, for regular perturbation problems, the solutions of the general problem converge to the solutions of the limit-problem as the parameter approaches the limit-value.

Singular perturbation theory - Scholarpedia

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Physica D 32 (1988) 327-361 North-Holland, Amsterdam SINGULAR PERTURBATION THEORY OF TRAVELING WAVES IN EXCITABLE MEDIA (A REVIEW)* John J. TYSON Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, USA and James P. KEENER Department of Mathematics, University of Utah, Salt Lake City, UT 84112, LISA Received 15 September 1987 Revised manuscript ...

Singular perturbation theory of traveling waves in ...

Description The subject of this textbook is the mathematical theory of singular perturbations, which despite its respectable history is still in a state of vigorous development. Singular perturbations of cumulative and of boundary layer type are presented.

The Theory of Singular Perturbations, Volume 42 - 1st Edition

<https://doi.org/10.1137/S0036141099360919> The geometric approach to singular perturbation problems is based on powerful methods from dynamical systems theory. These techniques have been very successful in the case of normally hyperbolic critical manifolds.

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