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Steve Brunton: \"Introduction to Fluid Mechanics\" Basic Perturbation theory : Differential Equations *History and geography of fluid mechanics ¦ Dr. Uddipta Ghosh ¦ 1st June, 2020 ¦ 4PM Singular perturbation method* **Introduction to Resurgence, Trans-series and Non-perturbative Physics - I by Gerald Dunne**

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'MalleyJr., 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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Asymptotic Analysis and Singular Perturbation Theory

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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