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Fitted Numerical Methods For Singular Perturbation Problems

Fitted Numerical Methods for Singularly Perturbed One-Dimensional Parabolic Partial Differential Equations with Small Shifts Arising in the Modelling of Neuronal Variability R. Nageshwar Rao¹ P. Pramod Chakravarthy² Differential Equations and Dynamical Systems volume 27, pages 1–18 (2019) Cite this article

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Fitted numerical methods for singular perturbation ...

A fitted numerical method for singularly perturbed parabolic reaction-diffusion problems Justin B. Munyakazi and Kailash C. Patidar Abstract ... to the singular perturbation parameter. We test the method on several numerical examples to confirm our theoretical findings.

A fitted numerical method for singularly perturbed ...

To investigate this, we consider two fitted operator finite difference methods (FOFDMs) developed by Patidar [K.C. Patidar, High order fitted operator numerical method for self-adjoint singular ...

High order fitted operator numerical method for self ...

Fitted mesh methods focus on the appropriate distribution of the mesh points for singularly perturbed problems.

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The global errors in the numerical approximations are measured in the pointwise maximum rm . The fitted mesh algorithm is particularly simple to implement in practice, but the theory of why these numerical methods work is far from simple.

Fitted Numerical Methods for Singular Perturbation ...

Using fitted operator finite difference method, we have described a numerical method for solving self-adjoint singular perturbation problems in conservation form. The method has been analyzed for convergence. Four examples have been solved to demonstrate the applicability of the proposed method.

High order fitted operator numerical method for self ...

Various approaches to the design and analysis of approximate numerical methods for singularly perturbed differential equations can be found in,,, and the references cited in them. Delay

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perturbation equations arise widely in various application fields and are also described in technical devices like control circuits.

An exponentially fitted finite difference scheme for a ...

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AMS :: Mathematics of Computation

In numerical analysis, the singular boundary method (SBM) belongs to a family of meshless boundary collocation techniques which include the method of fundamental solutions (MFS), boundary knot method (BKM), regularized meshless method (RMM), boundary particle method (BPM), modified MFS, and so on.

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Singular boundary method - Wikipedia

Jens M. Melenk, h -finite element methods for singular perturbations, Lecture Notes in Mathematics, vol. 1796, Springer-Verlag, Berlin, 2002. MR 1939620; 9. J. J. H. Miller, E. O'Riordan, and G. I. Shishkin, Fitted numerical methods for singular perturbation problems, World Scientific Publishing Co., Inc., River Edge, NJ, 1996. Error estimates in the maximum norm for linear problems in one and two dimensions.

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This study introduces the uniformly convergent numerical method based on the exponential fitted operator method for solving singularly perturbed boundary value problems with integral boundary conditions. The behavior of the continuous solution of the problem is studied and the derivatives of the solution are also bounded.

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Accelerated Exponentially Fitted Operator Method for ...

High order fitted operator numerical method for self-adjoint singular perturbation problems Kailash C. Patidar
Department of Mathematics and Applied Mathematics, University of Pretoria, Pretoria 0002, South Africa
Abstract We consider self-adjoint singularly perturbed two-point boundary value problems in conservation form.

High order fitted operator numerical method for self ...

The so-defined method belongs to a class of exponentially fitted methods. Exponential fitting is a well-known approach widely used for singularly perturbed problems. The novelty of this paper is a new approach for the derivation of difference schemes.

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