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basic theory associated with fitted numerical methods for singularly perturbed differential equations. Fitted mesh methods focus on the appropriate distribution of the mesh points for singularly perturbed problems.

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A fitted numerical method for singularly
perturbed parabolic reaction-diffusion
problems Justin B. Munyakazi and
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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

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(FOFDMs) developed by Patidar [K.C.
Patidar, High order fitted operator
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numerical method for self ...**

Fitted mesh methods focus on the
appropriate distribution of the mesh

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points for singularly perturbed problems.
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approximations are measured in the
pointwise maximum norm. The fitted mesh
algorithm is particularly simple to
implement in practice, but the theory of
why these numerical methods work is
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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

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of the proposed method.

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Various approaches to the design and
analysis of approximate numerical
methods for singularly perturbed
differential equations can be found in,,,
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differential equations arise widely in
various application fields and are also
described in technical devices like
control circuits.

**An exponentially fitted finite
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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 -
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estimates in the maximum norm for
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AMS :: Mathematics of Computation

This study introduces the uniformly
convergent numerical method based on

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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.

Accelerated Exponentially Fitted

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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

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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

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paper is a new approach for the
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