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TU Dresden November 10, 2018 Abstract

The second edition of the book appeared

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October 2012; Accepted 7 November  
2012. Academic Editors: S. W. Gong, X.  
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## **Robust Numerical Methods for Singularly Perturbed ...**

Numerical methods for singularly  
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problems have received much attention

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in recent papers. A brief summary of previous work on the numerical solution of singularly perturbed single and coupled linear reaction-diffusion problems can be found in [1, 2]. To the best of our knowledge, no published paper considers a system of singularly perturbed nonlinear reaction-diffusion problems posed on a two-dimensional

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Order Boundary Value Problem with  
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Many numerical methods have been developed for the solution of two layer boundary value problems, such as described in [4], [5], [6] and [7] for one



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Parameter robust methods. The robust  
solution of singularly perturbed  
problems can be achieved using fitted  
operator schemes (i.e., specially

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designed methods, but used, say, on a uniform mesh) or fitted mesh methods—standard schemes employed on specially designed meshes.

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Springer-Verlag, Berlin, 2008. Beijing  
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## **Martin Stynes - CSRC**

Examination of the performance of  
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interior layers. P.A. Farrell<sup>1</sup> and E.  
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**Examination of the performance of  
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The numerical solution of singularly

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perturbed differential equations (SPDEs) is of great interest to numerical analysts, given the importance of these equations in computational modelling, and the challenges they present for classical numerical schemes and the mathematical methods used to analyse them; see [15] for a survey.

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