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Mesh design principles for the efficient approximation of both features by the hp-version of the finite element method (hp-FEM) are proposed in this volume. For a class of singularly perturbed problems on polygonal domains, robust exponential convergence of the hp-FEM based on these mesh design principles is established rigorously.

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The finite element method has always been a mainstay for solving engineering problems numerically. The most recent developments in the field clearly indicate that its future lies in higher-order methods, particularly in higher-order hp-adaptive schemes.

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Most numerical methods employed in the study of singularly perturbed problems are low order methods. In contrast, the present work is devoted to a complete analysis of a high order nite element method, the hp-version of the Finite Element Method (FEM), for a class of singularly perturbed problems on curvilinear polygons. To the knowledge of the author, this work represents the rst robust exponential convergence result for a class of singularly perturbed problems under realistic

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Many partial differential equations arising in practice are parameter-dependent problems that are of singularly perturbed type. Prominent examples include plate and shell models for small thickness in solid mechanics, convection-diffusion problems in fluid mechanics, and equations arising in semi

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hp FEM Wikipedia

hp-FEM is a general version of the finite element method (FEM), a numerical method for solving partial differential equations based on piecewise-polynomial approximations that employs elements of variable size (h) and polynomial degree (p).

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This book is an introduction to the mathematical analysis of p - and hp -finite elements applied to elliptic problems in solid and fluid mechanics. In the last decade the p -, hp -, and spectral element methods have emerged as efficient and robust approximation methods for several classes of problems in this area.

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Discontinuous hp Finite Element Methods for Advection

We consider the hp -version of the discontinuous Galerkin finite element method (DGFEM) for second-order partial differential equations with nonnegative characteristic form. This class of equations includes second-order elliptic and parabolic equations, advection-reaction equations, as well as problems of mixed hyperbolic-elliptic-parabolic type.

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