



p- and hp- Finite Element Methods: Theory and Applications to Solid and Fluid Mechanics (Numerical Mathematics and Scientific Computation)

CH. Schwab

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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. The aim of this book is to establish the exponential convergence of such methods for problems with the piecewise analytic solutions which typically arise in engineering. It looks at the variational formulation of boundary value problems with particular emphasis on the regularity of the solution. The book then studies the p - and hp -convergence of the finite element method (FEM) in one and two dimensions, supplying complete proofs. Also covered are hp -FEM for saddle point problems and the techniques for establishing the discrete inf-sup condition. Finally, hp -FEM in solid mechanics and the issue of locking is addressed in the context of these methods. It is suitable for graduate students and researchers who have had some prior exposure to FEM.

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