



# Theory and Practice of Finite Elements (Applied Mathematical Sciences)

*Alexandre Ern, Jean-Luc Guermond*



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This text presenting the mathematical theory of finite elements is organized into three main sections. The first part develops the theoretical basis for the finite element methods, emphasizing inf-sup conditions over the more conventional Lax-Milgrim paradigm. The second and third parts address various applications and practical implementations of the method, respectively. It contains numerous examples and exercises.



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