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论文

小系数二阶偏微分方程的组合稳定有限元方法

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摘要:

关键词:

COMBINATORIAL STABILIZED FINITE ELEMENT METHOD FOR PARTIAL DIFFERENTIAL EQUATION

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Abstract:

A second-order linear scalar differential equation including a zeroth order term is approximated by using a new stablized finite element method, which can attenuate the oscillations present using the standard Galerkin method with very small coefficient of the seconder-order term. By the helpness of additional variable which could be static condensated, we generalize the "unusual stabilized finite element method" developed in [1] from linear triangle element to bilinear quartdral element, and we establish a convergence study and obtain successful numerical simulation.

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