

Yang, Yidu

A posteriori error estimates in Adini finite element for eigenvalue problems. (English)

Zbl 0957.65092

J. Comput. Math. 18, No. 4, 413-418 (2000).

Author's abstract: We discuss a posteriori error estimates of the eigenvalue λ_h given by the Adini non-conforming finite element method. We give an asymptotically exact error estimator of the λ_h . We prove that the order of convergence of the λ_h is just 2 and the λ_h converge from below for sufficiently small h .

Reviewer: [Thomas Sonar \(Braunschweig\)](#)

MSC:

- [65N25](#) Numerical methods for eigenvalue problems for boundary value problems involving PDEs
- [65N15](#) Error bounds for boundary value problems involving PDEs
- [65N30](#) Finite element, Rayleigh-Ritz and Galerkin methods for boundary value problems involving PDEs
- [35P15](#) Estimates of eigenvalues in context of PDEs

Cited in **1** Review
Cited in **22** Documents

Keywords:

[a posteriori estimation](#); [Adini finite elements](#); [convergence](#); [eigenvalue](#)