
Abstract: In this paper the MITC finite element methods for the Reissner–Mindlin plate bending problem are considered. A superconvergence result for the deflection is proved. Utilizing this property a local postprocessing is introduced and analyzed. The improved accuracy of the deflection is confirmed by numerical computations.

AMS subject classifications: 65N30, 74S05, 74K20

Keywords: Reissner–Mindlin plates, MITC finite element methods, superconvergence, postprocessing

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