

论文

## THE EXTRAPOLATION METHOD FOR A CLASS OF NON-SMOOTH FREDHOLM INTEGRAL EQUATIONS

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**摘要** For a class of non-smooth Fredholm integral equations we prove that Richardson extrapolation method can be used to increase accuracy for finite element methods. On the basis of local refinement mesh, a superconvergence result is shown. Our theory also covers a class of non-smooth Wiener-Hopf equations and an application includes the calculation in certain linear elastic fracture problems.

**关键词** [Finite element](#),[superconvergence](#),[extrapol](#)

分类号

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**Key words** [Finite element](#) [superconvergence](#) [extrapolation method](#) [local refinemen mesh](#) [error asymptotic expansion](#)

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