

论文

A DEFECT CORRECTION METHOD FOR THE EFFECTIVE COMPUTATION OF HIGH-DEGREE FINITE ELEMENT SOLUTIONS

J. P. Monnet

Institute of Systems Science, Academia Sinica, Beijing

收稿日期 修回日期 网络版发布日期 接受日期

摘要 The high-degree finite element solution of the 2-point boundary value problem: $-(p(t)u'(t))'=f(t,u)$ in $(0,1)$, $u(0)=u(1)=0$ is considered as a fixed-point of an iterative process using a linear finite element scheme as a basic solver. The rate of contraction is $O(h)$, or $O(h^2)$ if $P(t)$ is piecewise constant in $(0,1)$.

关键词

分类号

A DEFECT CORRECTION METHOD FOR THE EFFECTIVE COMPUTATION OF HIGH-DEGREE FINITE ELEMENT SOLUTIONS

J. P. Monnet

Institute of Systems Science, Academia Sinica, Beijing

Abstract The high-degree finite element solution of the 2-point boundary value problem: $-(p(t)u'(t))'=f(t,u)$ in $(0,1)$, $u(0)=u(1)=0$ is considered as a fixed-point of an iterative process using a linear finite element scheme as a basic solver. The rate of contraction is $O(h)$, or $O(h^2)$ if $P(t)$ is piecewise constant in $(0,1)$.

Key words

DOI:

通讯作者

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(0KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 无 相关文章](#)
- ▶ [本文作者相关文章](#)
- [J P Monnet](#)