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## 利普希茨伪紧缩映射下的利普希茨摄动迭代的Bruck公式

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**摘要:** 在非线性分析中, 处理伪紧缩算子及其变形的解(不动点)存在性和近似性, 从而使演化方程的求解已经发展成为一个独立的理论. 使用近似不动点技术, 采用摄动迭代方法, 目的是证明利普希茨伪紧缩映射序列的收敛性. 该迭代方法适用于比利普希茨伪紧缩算子更一般的非线性算子以及Bruck迭代法无法证明其收敛性的情况. 推广了Chidume和Zegeye的结果.

**关键词:** 伪紧缩映射; 利普希茨摄动迭代; 不动点; 一致Gateaux微分范数  
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