

无限族严格渐近伪压缩映象隐迭代程序的强收敛定理

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摘要 在Banach空间框架下, 对无限族的严格渐近伪压缩映象和无限族的非扩张映象引入了一类新的隐迭代程序,并在适当的条件下,证明了该迭代程序强收敛于这两族映象的公共不动点.结果是新的,它推广和改进了一些人的最新结果.

关键词 [无限族严格渐近伪压缩映象](#), [Browder-Petryshyn型的严格伪压缩映象](#), [隐式迭代序列](#), [公共不动点](#).

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Strong Convergence Theorems of Implicit Iteration Process for an Infinite Family of Strictly Asymptotically Pseudocontractive Mappings in Banach Spaces

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Abstract In this paper a new implicit iteration process for an infinite family of strictly asymptotically pseudocontractive mappings and nonexpansive mappings are introduced. By using the iterative process some strong convergence theorems to approximating a common fixed point of strictly asymptotically pseudocontractive mappings and nonexpansive mappings are proved. The results presented in the paper are new which extend and improve some recent results.

Key words [Strictly asymptotically pseudocontractive mapping](#) [strictly pseudocontractive mapping of Browder-Petryshyn type](#) [implicit iteration process with errors](#) [common fixed point](#).

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