类W-KKM (X,Y,Z), 几乎不动点定理和不动点定理

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摘要　　引进了相对弱R-子集和类(W-)KKM(X,Y,Z)的概念,给出了相对KKM映射与相对弱R-子集之间的等价关系以及W-KKM(X,Y,Z)的一个性质,
然后给出了两个连续选择定理并得到不动点定理和重合点定理, 最后,在一致拓扑空间上得到具有弱-KKM性质的映射的几乎不动点,不动点和重合点的存在定理.

Class W-KKM (X,Y,Z), Almost Fixed Point Theorems and Fixed Point Theorems

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Abstract The concepts of relatively weak R-subset and class (W-)KKM(X,Y,Z) were introduced, an equivalent relation of relative KKM map and relatively weak R-subset and a property of W-KKM(X,Y,Z) were given; and then two continuous selection theorem were given and from which, fixed point theorems and coincidence theorem were obtained; finally, existence theorems of
almost fixed point, fixed point theorem and coincidence point theorem for a map with weak-KKM property were obtained on uniform topological spaces.

通讯作者