

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 RS -子集和类 $(SW-)$ KKM (X, Y, Z) 的概念, 给出了相对KKM映射与相对弱 RS -子集之间的等价关系以及 SW -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.

关键词 [相对弱 \$RS\$ -子集, 类 \$\(SW-\)\$ KKM \$\(X, Y, Z\)\$, \$\{\text{it } \Phi\}\$ -映射, 几乎不动点, 重合点.](#)

分类号 [47H05, 47H10](#)

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

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Abstract The concepts of relatively weak RS -subset and class $(SW-)$ KKM (X, Y, Z) were introduced, an equivalent relation of relative KKM map and relatively weak RS -subset and a property of SW -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.

Key words [Relatively weak \$RS\$ -subset](#), [class \$\(SW-\)\$ KKM \$\(X, Y, Z\)\$](#) , [\$\{\text{it } \Phi\}\$ -map](#), [almost fixed point](#), [coincidence point.](#)

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