

一般多值向量变分不等式问题

殷洪友(1), 徐成贤(2)

(1)南京航空航天大学理学院,南京210016;(2)西安交通大学理学院,西安710049

收稿日期 修回日期 网络版发布日期 接受日期

摘要 该文引入了一般多值向量变分不等式问题(GMVVI),这推广和统一了现有的向量变分不等式. 文内还引入了弱C-伪单调映射和半连续映射的概念,在弱C-伪单调性和半连续性的假设下,给出了(GMVVI)的广义线性化引理和存在定理.

该文的结果即使对一般向量变分不等式问题和广义向量变分不等式问题也是全新的.

关键词 [一般多值向量变分不等式问题,半连续性,弱C-伪单调性](#)

分类号

GENERAL MULTI-VALUED VECTOR VARIATIONAL INEQUALITY PROBLEMS

Hong You YIN(1),Cheng Xian XV(2)

(1)Faculty of Science, Nanjing University of Aeronautics and Astronautics, Nanjing 210016,P.R.China;
(2)Faculty of Science, Xi'an Jiaotong University, Xi'an 710049,P.R.China

Abstract In this paper,we introduce a general multi-valued vector variational inequality problem(GMVVI) which extends and unifies the existing vector variational inequalities.The concepts of weakly C-pseudomonotone mappings and hemicontinuous mappings are introduced.Generalized linearization lemma and existence theorems of solutions for (GMVVI) are given with the assumptions of weakly C-pseudomonotonicity and hemicontinuity.These results are new even for the general wvector variational inequality problem and generalized vector variational inequality problem.

Key words [General multi-Valued vector variational inequality problem](#) [hemicontinuity](#) [weakly C-pseudomonotonicity](#)

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