

论文

## 多目标规划的弱镇定性、弱稳定性及其精确罚函数

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**摘要** 本文将 Rosenberg 在文[1]中定义的单目标规划的镇定性、稳定性概念推广到多目标的情形,讨论多目标规划问题 $(VP) \min_{x \in X} f(x) \text{ s.t. } g_k(x) \leq 0, k \in K_1, h_k(x) = 0, k \in K_2$ 的弱镇定性、弱稳定性、局部弱稳定性、一致局部弱稳定性,以及罚函数问题...

关键词

分类号

## WEAK CALMNESS AND WEAK STABILITY OF MULTI-OBJECTIVE PROGRAMMING AND THE EXACT PENALTY FUNCTIONS

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**Abstract** In this paper the concepts of weak calmness and weak stability of multiobjective programming are introduced. Some sufficient and necessary conditions for weak calmness and weak stability are provided. The local and global exactness of a kind of penalty functions under the conditions of weak calmness and weak stability is proved. In the case of convexity, the equivalence of weak stability, exactness of the penalty functions and the existence of weak Lagrange multipliers is proved.

**Key words**

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