扩展功能

本文信息
▶ Supporting info
▶ PDF(0KB)
▶ [HTML全文](0KB)
▶ 参考文献
服务与反馈
▶ 把本文推荐给朋友
▶ 加入我的书架
▶ 加入引用管理器
▶ 复制索引
▶ Email Alert
▶ 文章反馈
▶ 浏览反馈信息
相关信息
▶ 本刊中 包含 "Approximate linearization"的 相关文章
▶本文作者相关文章
· Xi Liu
· Qingling Zhang
· Lichun Zhao

Stabilization of a Kind of Prey-Predator Model with Holling Functional Response

Xi Liu,Qingling Zhang,Lichun Zhao

College of Science, Northeastern University, Shenyang 110006, China

摘要   The stabilization problem of a kind of prey-predator model with Holling functional response is investigated. By approximate linearization approach, a feedback control law stabilizing the closed-loop system is obtained. On the other hand, by exact linearization approach, a suitable change of coordinates in the state space and a feedback control law render the complex nonlinear system to be a linear controllable one such that the positive equilibrium point of the closed-loop system is globally asymptotically stable.

关键词   Approximate linearization   asymptotically stable   exact linearization   prey-predator model   state feedback control

分类号

DOI:

通讯作者