عنوان مقاله:

LIMITED GROWTH PREY MODEL AND PREDATOR MODEL USING HARVESTING

محل انتشار:

مجله بین المللی مدل سازی و محاسبات ریاضی, دوره 5, شماره 4 (سال: 1394)

تعداد صفحات اصل مقاله: 12

نویسنده:

Vijaya Rekha Rekha - *http://www.annamalaiuniversity.ac.in Department of mathematics,Annamalai university India Assistant professor, Department of Mathematics, Annamalai university.*

خلاصه مقاله:

In this paper, we have proposed a study on controllability and optimal harvestingof a prey predator model and mathematical non linear formation of the equation equilibriumpoint of Routh harvest stability analysis. The problem of determining the optimal harvestpolicy is solved by invoking Pontryagin٥s maximum principle dynamic optimization of theharvest policy is studied by taking the combined harvest eect as a dynamics variable

کلمات کلیدی:

Predator prey model, harvesting, Stability, optimal harvest policy, equilibrium point, Pontryagins maximum principle

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1590069