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擴要: In this paper, we use an analytical approach to study the dynamics of the simplest forms of refuge using by prey. Here we incorporate prey refuge in a widely known continuous model|the Lotka-Volterra model. We will evaluate the effect of prey refuge with regard to the local stability of equilibrium points in the 痲st quadrant and equilibrium density values. The results show that the effect of prey refuge can enhance the stability of equilibrium points and equilibrium density of prey and predator populations.

关键词: Predator-prey models; Stability; Limit cycles; Prey refuge

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