论文

GLOBAL ATTRACTIVITY OF POPULATION MODELS WITH DELAYS AND DIFFUSION

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摘要 In this paper, the asymptotic behavior of three types of

population models with delays and diffusion is studied. The first

represents one species growth in the patch ${\rm \Delta}\$ and

periodic environment and with delays recruitment, the second

models a single species dispersal among the \$m\$ patches of a

heterogeneous environment, and the third models the spread of

bacterial infections. Sufficient conditions for the global

attractivity of periodic solution are obtained by the method of

monotone theory and strongly concave operators. Some earlier

results are extended to population models with delays and

diffusion.

关键词 Delays, population models, global attrac

分类号

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Abstract In this paper, the asymptotic behavior of three types of population models with delays and diffusion is studied. The first represents one species growth in the patch ${\star \mbox{\mbox{o}} \mbox{\mbox{\mbox{o}} \mbox{\mbox{o}} \mbox{\mbox{\mbox{o}}} \mbox{\mbox{\mbox{o}} \mbox{\mbox{o}} \mbox{\mbox{o}} \mbox{\mbox{o}} \mbox{\m$

Key words Delays population models global attractivity reaction-diffusion

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