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Title: Dynamics in a two-species competitive model of plankton allelopathy with delays and feedback controls

Author(s): Changjin Xu, Qiming Zhang and Peiluan Li

In this paper, we propose and investigate a discrete competitive model with delays and feedback controls. With the help of the difference inequality theory, we establish some sufficient conditions which guarantee the permanence of the model. Under some suitable conditions, we show that the periodic solution of the system is global stable. Two example with their numerical simulations are given which are in a good agreement with our theoretical analysis. Our results are new and complement previously known results.

Address:
Changjin Xu
Guizhou Key Laboratory of Economics
System Simulation
Guizhou University of Finance
and Economics
Guiyang, Guizhou 550004
P. R. China

Address:
Qiming Zhang
College of Science
Hunan University of Technology
Zhuzhou, Hunan 412007
P. R. China

Address:
Peiluan Li
School of Mathematics and Statistics
Henan University of Science
and Technology
Luoyang, Henan 471023
P. R. China