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A MODEL OF TWO MUTUALLY INTERACTING SPECIES WITH LIMITED RESOURCES FOR BOTH THE SPECIES

B. RAVINDRA REDDY, K. LAKSHMI NARAYAN, K. NARSIMHA REDDY AND N. CH. PATTABHIRAMACHARYULU

Abstract

In the present investigation, a two–species ecological mutualism model is discussed. The model is characterized by a coupled pair of first order non-linear ordinary differential equations. In all, four equilibrium points are identified and their stability criteria are discussed for each state. Some threshold results are illustrated.

Keywords: Equilibrium points, Mutualism, Normal steady state, Stability, Threshold Diagrams and Threshold Results.