

ON THE ZERO-HOPF BIFURCATION OF THE GENERALIZED A CHEN–WANG SYSTEM

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April 28, 2020

Abstract

In this work, we show that a zero–Hopf bifurcation takes place in the differential system as parameters vary. Using averaging theory, we prove the existence of two periodic orbits bifurcating from the zero–Hopf equilibrium for the generalized a Chen–Wang system

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