عنوان مقاله:

Existence, uniqueness and stability results of an iterative survival model of red blood cells with a delayed nonlinear harvesting term

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خلاصه مقاله:

In this article, a first-order iterative Lasota–Wazewska model with a nonlinear delayed harvesting term is discussed. Some sufficient conditions are derived for proving the existence, uniqueness and continuous dependence on parameters of positive periodic solutions with the help of Krasnoselskii's and Banach fixed point theorems along with the Green's functions method. Besides, at the end of this work, three examples are provided to show the accuracy of the conditions of our theoretical findings which are completely innovative and complementary to some earlier publications in the literature.

کلمات کلیدی:

Fixed point theorem, Green's function, iterative differential equation, Lasota–Wazewska model

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1995612