PERIODIC SOLUTIONS FOR NONLINEAR FRACTIONAL DIFFERENTIAL SYSTEMS

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Abstract. In this paper, we establish some existence and uniqueness results for periodic solutions for a class of fractional differential equations with the Caputo fractional derivative. The arguments are based upon the Banach contraction principle, and Schaefer’s fixed point theorem.


Keywords and phrases: Fractional differential equation, existence, uniqueness, periodic solution, Banach contraction principle, Schaefer’s fixed point theorem.

REFERENCES


