

Existence of Periodic Solutions of a Type of Nonlinear Impulsive Delay Differential Equations with a Small Parameter

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Banach fixed point theorem is used to prove the existence of a unique ω periodic solution of a new type of nonlinear impulsive delay differential equation with a small parameter. Upon dropping the Lipschitz conditions imposed on the nonlinear terms, we prove the existence of at least one ω periodic solution by employing Schauder fixed point theorem.