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REGULATED SOLUTIONS AND PERIODICITY FOR NONLINEAR INTEGRAL EQUATIONS ON TIME SCALES IN BANACH SPACES

This work deals with a large class of controlled nonlinear integral equations on time scales (see S. Hilger, M. Bohner) in Banach spaces where the integral used is the right Cauchy-Stieltjes one (see L. Barbanti, M. Federson, B.C. Damasceno, G.N. Silva). By considering the concepts of α -contraction and periodic points (see M. Edelstein, R. Demarr, S.B. Nadiel, R.E. Smithson) we give conditions on the kernel in the integral for the existence of solutions, periodic solutions and uniqueness in the nonlinear equation.

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