

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">A. ArdjouniA. Djoudi	authors	<ul style="list-style-type: none">A. ArdjouniA. Djoudi	NOT DUPLICATES	530
	title	EXISTENCE OF POSITIVE PERIODIC SOLUTIONS FOR TWO KINDS OF NONLINEAR NEUTRAL DIFFERENTIAL EQUATIONS WITH VARIABLE DELAY	title	Existence of periodic solutions for first-order totally nonlinear neutral differential equations with variable delay		
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	id	id-6912237984354180230	id	id-3454279600008381480		
	abstract	In this article we study the existence for of positive periodic solutions for kinds of nonlinear neutral differential equations with variable delay. The main tool employed here is the Krasnoselskii's hybrid fixed point theorem dealing with a sum of two mappings, one is a contraction and the other is completely continuous. The results obtained here generalize the work of Luo, Wang and Shen (13).	abstract	We use a modification of Krasnoselskii's fixed point theorem due to Burton (see [Liapunov functionals, fixed points and stability by Krasnoselskii's theorem, Nonlinear Stud. 9 (2002), 181--190], Theorem 3) to show that the totally nonlinear neutral differential equation with variable delay $x'(t) = -a(t)h(x(t)) + c(t)x'(t-g(t))Q'(x(t-g(t))) + G(t,x(t),x(t-g(t))), \end{equation*}$ has a periodic solution. We invert this equation to construct a fixed point mapping expressed as a sum of two mappings such that one is compact and the other is a large contraction. We show that the mapping fits very nicely for applying the modification of Krasnoselskii's theorem so that periodic solutions exist.		
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