

cases	doc_1		doc_2		decision	id
					NOT DUPLICATES	527
	authors	<ul style="list-style-type: none"><li>A. Ardjouni</li><li>A. Djoudi</li></ul>	authors	<ul style="list-style-type: none"><li>A. Ardjouni</li><li>A. Djoudi</li></ul>		
	title	Existence and positivity of solutions for a totally nonlinear neutral periodic differential equation	title	Existence of periodic solutions for first-order totally nonlinear neutral differential equations with variable delay		
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	abstract	. In this paper, we use a modification of Krasnoselskii's fixed point theorem introduced by Burton (see [6] Theorem 3) to establish new results on the existence and positivity of solutions for the totally nonlinear neutral periodic differential equation of the form We invert this equation to construct a sum of a completely continuous map and a large contraction which is suitable for the application of a modification of Krasnoselskii's theorem.	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 $x'(t) = -a(t)h(x(t)) + c(t)x'(t-g(t))Q'(x(t-g(t))) + G(t,x(t),x(t-g(t))),$ 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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