

cases	doc_1		doc_2		decision	id
	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>	NOT DUPLICATES	526
	title	Existence and positivity of solutions for a totally nonlinear neutral periodic differential equation	title	EXISTENCE OF PERIODIC SOLUTIONS FOR A SECOND ORDER NONLINEAR NEUTRAL FUNCTIONAL DIFFERENTIAL EQUATION		
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	id	id7703244393954780233	id	id-7486091728476523865		
	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 study the existence of periodic solutions of the second order nonlinear neutral differential equation with variable delay $x''(t) + p(t)x'(t) + q(t)h(x(t)) = c(t)x''(\tau(t)) + f(t, x(\tau(t)))$ . We invert the given equation to obtain an integral, but equivalent, equation from which we define a fixed point mapping written as a sum of a large contraction and a compact map. We show that such maps fit very nicely into the framework of Krasnoselskii-Burton's fixed point theorem so that the existence of periodic solutions is concluded.		
	versions		versions			