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<tr><th>authors</th><td>A. Ardjouni
A. Djoudi</td></tr>
<tr><th>title</th><td>The existence of periodic solutions for a second order nonlinear neutral differential equation with functional delay</td></tr>
<tr><th>publication_date</th><td>None</td></tr>
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<tr><th>journal</th><td>Electronic Journal of Qualitative Theory of Differential Equations</td></tr>
<tr><th>volume</th><td></td></tr>
<tr><th>doi</th><td>10.14232/EJQTDE.2012.1.31</td></tr>
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<tr><th>abstract</th><td>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 \begin{equation*} 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.</td></tr>
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