
Periodic Solutions Of Singular Lagrangian Systems

periodic solutions of singular equations - ugr - periodic solutions of singular equations antonio j. urena~ abstract we study second-order ordinary differential equations of newtonian type. the forcing terms under consideration are the product of a nonlinearity which is singular at the origin with an indefinite weight. under some additional assumptions we show the existence of periodic solutions. **positive periodic solutions of singular first order ...** - positive periodic solutions for the general scalar of nonlinear nonautonomous functional differential equations. the existence of positive periodic solutions for first order singular boundary value problems have been studied extensively, see [1, 5, 8, 19, 21]. however, to the best of our knowledge, the results concerning **periodic solutions to singular second order ... - ugr** - periodic solutions to singular second order differential equations: the repulsive case robert hakl,¹ pedro j. torres,² and manuel zamora² abstract this paper is devoted to study the existence of periodic solutions to the second **existence of positive periodic solutions of fourth-order ...** - by means of mawhin's continuation theorem, the existence results of periodic solutions are obtained. in recent years, singular equations appear in a lot of physical models, see [18], [19], [20], [29] and the references therein. different kinds of singular equations have been proposed by many authors, see for **periodic solutions for singular liénard equations with ...** - issn published by world academic press, world academic union 1746-7659, england, uk journal of information and computing science vol. 13, no.3, 2018, pp.223-228 **periodic solutions for singular liénard equations with indefinite kink, singular soliton and periodic solutions to class of ...** - we study the traveling wave solutions to this model by using the g/cg expansion method. then, based on the obtained results given for the duffing equation, we generate kink, singular soliton and periodic solutions for a coupled integrable dispersionless nonlinear system. all the solutions given in this work are verified. **global continua of periodic solutions of singular first ...** - configurations, or equilateral triangle solutions. the domain Ω need not be simply connected. a special feature is that the associated action integral is not defined on an open subset of the space of 2π -periodic $h^{1/2}$ functions, the natural form domain for first order hamiltonian systems. this is a consequence of the singular character of the **periodic solutions for laplacian differential equation ...** - fig. 1: numerical solutions for eq. (6) inspired by the above mentioned works, in this paper, we study the existence of positive periodic solution for laplacian differential equation with singular forces of attractive type. to the best of our knowledge, there are fewer papers dealing with the periodic solutions for laplacian **periodic solutions of second order non-autonomous singular ...** - in this paper, we establish two different existence results of positive periodic solutions for second order non-autonomous singular dynamical systems. the first one is based on a nonlinear alternative principle of lera-schauder and the result is applicable to the case of a strong singularity as well as the case of a weak singularity. **periodic solutions of singular radially symmetric systems ...** - periodic solutions of singular radially symmetric systems with superlinear growth 185 where μ is the (scalar) angular momentum of $x(t)$ call that μ is constant in time along any solution, as $d/dt [\rho^2(t)\dot{\phi}(t)] = 0$ for every t , cf. [2] the following, when considering a **solitary solutions and singular periodic solutions of the ...** - solitary solutions and singular periodic solutions of the drinfeld-sokolov-wilson equation by variational approach wei-min zhang school of mathematics, jiaxing university meizhou, guangdong, 514015, china wm-zh@163 abstract via the semi-inverse method, variational principles are established for the drinfeld-sokolov-wilson (dsw) equation. **research article new periodic solutions for the singular ...** - research article new periodic solutions for the singular hamiltonian system yiliao school of business administration, southwestern university of finance and economics, chengdu, china **periodic solutions of damped differential systems with ...** - periodic solutions of damped differential systems with repulsive singular forces meirong zhang (communicated by hal l. smith) abstract. we consider the periodic boundary value problem for the singular ... periodic solutions of singular equations 405 by (2.11) and (2.13), we have **the asymptotic shapes of periodic solutions of a singular ...** - the asymptotic shapes of periodic solutions of a singular delay differential system yuming chen and jianhong wu department of mathematics and statistics, york university, 4700 keele street, toronto, ontario m3j 1p3, canada received april 9, 1999; revised february 3, 2000 dedicated to professor jack hale on the occasion of his 70th birthday **nilpotent singular points and smooth periodic wave solutions** - the publishing house proceedings of the romanian academy, series a, of the romanian academy volume 20, number 1/2019, pp. 3-9 mathematics nilpotent singular points and smooth periodic wave solutions lina zhang huzhou university, school of science, huzhou, zhejiang 313000, pr.

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