

### **impulsive differential equations periodic pdf**

On the other hand, impulsive control theory has become a very important direction in the theory of impulsive differential equations, stimulated by their numerous applications to problems arising in orbital transfer of satellite (Prussing, Wellnitz, & Heckathorn, 1989), ecosystems management (Liu & Rohlf, 1998), electrical engineering (Yang & Chua, 1997), and so on.

### **Impulsive differential equations: Periodic solutions and**

Thus impulsive differential equations, that is, differential equations involving impulse effects, appear as a natural description of observed evolution phenomena of several real world problems. Contents:

### **Theory of Impulsive Differential Equations | Series in**

174 X. Li et al. / Automatica 52 (2015) 173–178 respectively. Moreover,  $R^n$  and  $\tilde{R}^m$  denote the  $n$ -dimensional and  $m$ -dimensional real spaces, respectively, equipped with

### **Impulsive differential equations: Periodic solutions and**

D. Qian, L. Chen and X. Sun, Periodic solutions of superlinear impulsive differential equations: A geometric approach, J. Differential Equations 258 (2015), no. 9, 3088–3106.

### **Periodic Solutions of Sublinear Impulsive Differential**

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Request PDF on ResearchGate | Periodic Solutions of Sublinear Impulsive Differential Equations | In this paper, we consider sublinear second order differential equations with impulsive effects.

### **Periodic Solutions of Sublinear Impulsive Differential**

A linear differential impulsive system  $\dot{x} = A(t)x$ ;  $t_6 = \tau_i$ ;  $x|_{t=\tau_i} = B_i x$  (2) is called  $T$ -periodic if the matrix  $A(t)$  is  $T$ -periodic and there is a natural number  $p$  such that

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In this paper we study impulsive periodic solutions for second-order nonautonomous singular differential equations. Our proof is based on the mountain pass theorem. Some recent results in the literature are extended.

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PERIODIC SOL. OF IMPULSIVE DELAY DIFFERENTIAL EQ. 37 terms in the impulse conditions. Such impulse conditions are more natural for delay differential equations.

### **A NECESSARY AND SUFFICIENT CONDITION FOR THE EXISTENCE OF**

Differ Equ Dyn Syst (January 2014) 22(1):73–91 DOI 10.1007/s12591-012-0156-0 ORIGINAL RESEARCH Pseudo Almost Periodic Solutions of Impulsive Differential Equations with Delay Fa

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### **Oscillatory and Periodic Solutions of Impulsive**

The existence theorems of almost periodic solutions for impulsive ordinary differential equations, impulsive integro-differential equations, impulsive differential equations with timevarying delays, and nonlinear impulsive functional differential equations are stated. By using the concepts of uniformly positive definite matrix functions and Hamilton–Jacobi–Riccati inequalities, the ...

### **Almost Periodic Solutions of Impulsive Differential Equations**

A. M. Samoilenko and N. A. Perestyuk, “Periodic solutions of impulsive differential equations,” in: Proc. Thirteenth Int. Conf. Nonlinear Oscillations, Prague, 1978, Prague (1979), pp. 1037–1042.

### **Periodic and almost-periodic solutions of impulsive**

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