

global behavior of nonlinear pdf

In this paper, we investigate the interaction of subharmonic resonances in the nonlinear quasiperiodic Mathieu equation, $x'' + [\omega + (\cos t + \cos 2t)]x + x^3 = 0$. We assume that $\omega > 1$ and that the ...

(PDF) Global Behavior of a Nonlinear Quasiperiodic Mathieu

behavior of solutions of the nonlinear QP Mathieu equation in each region and make general comments regarding the similarities and differences of the linear and nonlinear systems. Detailed analyses of the (linear) QP Mathieu equation can be found in [4–6, 8].

Global Behavior of a Nonlinear Quasiperiodic Mathieu Equation

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Global Behavior of A System of Two Nonlinear Difference Equation Guozhuan Hu . 37 www.wjrr.org A pair of sequences of positive real numbers (x_n, y_n) that satisfies Eq. (1) is a positive solution of Eq. (1). The equilibrium (x^*, y^*) of Eq. (1) is the solution of the following ...

Global Behavior of A System of Two Nonlinear Difference

Our aim in this monograph is to initiate a systematic study of the global behavior of solutions of nonlinear scalar difference equations of order greater than one. Our primary concern is to study the global asymptotic stability of the equilibrium solution.

Global Behavior of Nonlinear Difference Equations of

Global Behavior of Nonlinear Difference Equations of Higher Order with Applications by V.L. Kocic and G. Ladas Department of Mathematics, University of Rhode Island,

Global Behavior of Nonlinear Difference Equations of

global behavior of 1st order odes 3 The functions F_j are shown in the proof of Theorem 5 to solve first order autonomous ODEs, and thus they can always be calculated by quadratures.

GLOBAL BEHAVIOR OF SOLUTIONS OF NONLINEAR ODES - arXiv

as a global behavior of solutions of $y'' + p(x)y' + q(x)y = r(x)$, $y(0) = y_0$, $y(1) = y_1$ a) follows that function h satisfies the weak negative feedback condition on w , b , x .

Global Behavior of Solutions of a Nonlinear Second-Order

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The study of the qualitative behavior of solutions to linear difference equations can be seen in [5-8] and the references cited therein. Also, the asymptotic behavior of solutions to nonlinear difference equations have been studied

Global Asymptotic Behavior of Nonlinear Difference Equations

The global existence, boundedness and the behavior as $t \rightarrow \infty$ of solutions of the scalar nonlinear Volterra equation are discussed by frequency domain methods. Equations and variants of it arise in such applied areas as control theory, nuclear dynamics, population genetics, and viscoelasticity.

ON THE GLOBAL BEHAVIOR OF A NONLINEAR VOLTERRA EQUATION

And a sufficient condition for its global asymptotical stability is given. When these results are applied to the difference equation $x_{n+1} = \hat{1} \pm x_n \hat{k} x_n$, $n= 1,2,3,\dots$, some sufficient and necessary conditions of global asymptotical stability of the equation are obtained.

Global behavior of a higher order nonlinear difference

the behavior of a system was completely determined, for example by differential equation, then the behavior of the solutions of that system could be predicted for- ever after.

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