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This book is based on research on the rigorous proof of chaos and bifurcations in 2-D quadratic maps, especially the invertible case such as the Hénon map, and in 3-D ODE's, especially piecewise...

2-d Quadratic Maps And 3-d Ode Systems: A Rigorous ...

This book is based on research on the rigorous proof of chaos and bifurcations in 2-D quadratic maps, especially the invertible case such as the Hénon map, and in 3-D ODE's, especially piecewise linear systems such as the Chua's circuit. In addition, the book covers some recent works in the field of general 2-D quadratic maps, especially their classification into equivalence classes, and finding regions for chaos, hyperchaos, and non-chaos in the space of bifurcation parameters.Following ...

2-d Quadratic Maps And 3-d Ode Systems: A Rigorous ...

Following the main introduction to the rigorous tools used to prove chaos and bifurcations in the two representative systems, is the study of the invertible case of the 2-D quadratic map, where previous works are oriented toward Hénon mapping. 2-D quadratic maps are then classified into 30 maps with well-known formulas.

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2-D quadratic maps and 3-D ODE systems : a rigorous ...

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2-D quadratic maps and 3-D ODE systems : a rigorous ...

A Minimal 2-d Quadratic Map with Quasi-Periodic Route to Chaos. Article (PDF Available) in International Journal of Bifurcation and Chaos 18(5):1567-1577 · May 2008 with 190 Reads

(PDF) A Minimal 2-d Quadratic Map with Quasi-Periodic ...

The quadratic map can be synchronized through coupling. We can couple two quadratic maps with a coupling coefficient δ . Each map uses as its input a weighted average of its own variable and the other variable. $x_{n+1} = a - ((1 - \delta) x_n + \delta y_n)$

Consider the equation of the quadratic map

With doubling map. There is semi-conjugacy between the dyadic transformation (the doubling map) and the quadratic polynomial case of $c = -2$. Notation Iteration. Here denotes the n -th iteration of the function (and not exponentiation of the function):

Complex quadratic polynomial - Wikipedia

Thanks for contributing an answer to Mathematics Stack Exchange! Please be sure to answer the question.Provide details and share your research! But avoid Asking for help, clarification, or responding to other answers.

recurrence relations - Logistic and Quadratic map ...

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Chaotic quadratic maps Fig.1 illustrates stretching and folding transformations for the quadratic maps f_c (for example the Myrberg-Feigenbaum point $c = -1.401155$ is chosen). The segment $I_c = [-x_2, x_2]$ is mapped into itself (here x_2 is the right repelling fixed point). Points outside I_c go to infinity. We see that after one application of f_c , there are no points in $[-x_2, c)$.

Chaotic quadratic maps - ibiblio

The only difference between quadratic maps and quadratic forms is the insistence on the codomain N instead of a K . So in this way every quadratic form is a special case of a quadratic map. Most of the properties for quadratic forms apply to quadratic maps as well. For instance, if K has no 2-torsion ($2x = 0$ implies $x = 0$) then

quadratic map - PlanetMath

A Minimal 2-D Quadratic Map with Quasi-Periodic Route to Chaos1573 (a) (b) Fig. 6. (a) The bifurcation diagram for the map (3) obtained for $a=1.0$ and $0 < b \leq 67$. (b) Variation of the Lyapunov exponents of map (3) versus the parameter $0 < b \leq 0.67$, with $a=1$.

A MINIMAL 2-D QUADRATIC MAP WITH QUASI-PERIODIC ROUTE TO CHAOS

adsheip[at]cfa.harvard.edu The ADS is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement NNX16AC86A

Quadratic polynomial maps with Jacobian rank two - NASA/ADS

In mathematics, a chaotic map is a map (= evolution function) that exhibits some sort of chaotic behavior.Maps may be parameterized by a discrete-time or a continuous-time parameter. Discrete maps usually take the form of iterated functions.Chaotic maps often occur in the study of dynamical systems.. Chaotic maps often generate fractals.Although a fractal may be constructed by an iterative ...

List of chaotic maps - Wikipedia

- [Voiceover] Hey guys. There's one more thing I need to talk about before I can describe the vectorized form for the quadratic approximation of multivariable functions which is a mouthful to say so let's say you have some kind of expression that looks like a times x squared and I'm thinking x is a variable times b times xy, y is another variable, plus c times y squared and I'm thinking of a ...

Expressing a quadratic form with a matrix (video) | Khan ...

Are Quadratics part of a hierarchical structure?, Main topic, Properties and Relationships of Square Numbers, Conic Sections, Multi-Dimensional Equations, 3-...

Quadratic Equations - Mind Map

In this paper, we describe the semistable quotient of the set of regular polynomial automorphisms \mathcal{H}_2^2 in the semistable locus of the moduli space of quadratic rational maps, using the portrait moduli space of rational maps with a fixed point. We also provide the parametrization of \mathcal{H}_2^2 using two invariants, $\det f$ and $\text{tr} \dots$

Regular polynomial automorphisms in the space of planar ...

3.2 Factoring $d^2 + 4d + 4$ The first term is, d^2 its coefficient is 1 . The middle term is, $+4d$ its coefficient is 4 . The last term, "the constant", is $+4$ Step-1 : Multiply the coefficient of the first term by the constant $1 \cdot 4 = 4$ Step-2 : Find two factors of 4 whose sum equals the coefficient of the middle term, which is 4 .

Solve Quadratic equations $5d^2+20d+20=0$ Tiger Algebra Solver

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