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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 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 ...

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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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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 fora=1.0and0<b≤67. (b) Variation of the Lyapunov exponents of map (3) versus the parameter 0<b≤0.67,witha=1.

A MINIMAL 2-D QUADRATIC MAP WITH QUASI-PERIODIC ROUTE TO CHAOS
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. xn+1 = a - ((1 – δ) xn + δ yn) 2 yn+1 = a - (δxn + (1 – δ) yn) 2 We want to determine when xn – yn Æ 0. This is when the maps synchronize.

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
In algebraic number theory, a quadratic field is an algebraic number field K of degree two over Q, the rational numbers.The map d ↦ Q(√ d) is a bijection from the set of all square-free integers d ≠ 0,1 to the set of all quadratic fields. If d > 0, the corresponding quadratic field is called a real quadratic field, and for d < 0 an imaginary quadratic field or complex quadratic field ...

Quadratic field - Wikipedia
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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
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recurrence relations - Logistic and Quadratic map ...
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 (2 x = 0 implies x = 0) then

quadratic map - PlanetMath
adshelp[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
Quadratic map More complicated analytic quadratic map is x n+1 = f c (x n) = x n 2 + c. On complex plane it generates the famous Mandelbrot and Julia fractal sets. In spite of apparent simplicity it has very rich dynamics. For this map regions of regular and chaotic dynamics are entangled in an intricate manner and scenarios of transition to ...

Quadratic map - ibiblio
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 ...
special cases of general 2-D quadratic maps, many examples of which are given by Sprott [5] but not extensively studied. Equation (4) reduces to the time-delayed quadratic map for b = 0, much as the H´enon map in Eq. (2) reduces to the ordinary quadratic map for b = 0. On the other hand, this system is different from other well-known 2-D

A minimal 2-D quadratic map with quasi-periodicity route ...
- [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 ...
Mind Map- Quadratics 1) Find the x-intercepts 2) (6,0) & (2,0) 3) Insert into original intercept form quadratic equation 4) y=a(x-6)(x-2) 5) Find a (-1/2) and insert into equation 6) y=-1/2(x-6)(x-2) All Transformations Characteristics of a Quadratic Graph Parabola Can be

Mind Map- Quadratics by Jack Gabel on Prezi
the same discriminant as f, so that d = (b0)2 i 4nc0; in particular d is a square mod 4n. On the other hand suppose that d is a square mod 4n. Then select b so that b2 · d (mod 4n) and c = (b2 i d)=4n, to obtain a binary quadratic form nx2 + bxy + cy2 which properly represents n. Therefore we have proved: Proposition 4.1.