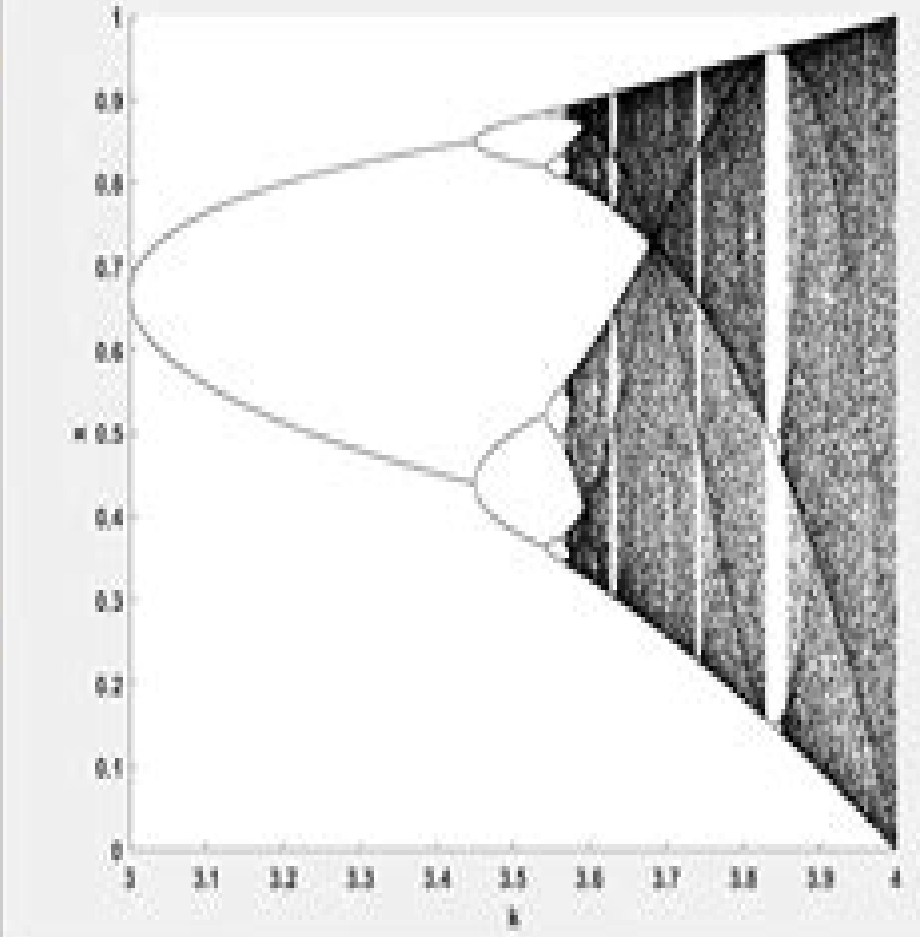
```
%initial condition
x(1)=0.111;
% parameter interval
k_min=3;
k_max=4;
%iteration step
t=0.0005;
k_interval=k_min:t:k_max;
pos=0; %interval variable for position counting
%iteration parameters
N=10^3;
n=150;
for k=k_interval
    pos=pos+1;
    for i=2:N
        x(i)=k*x(i-1)*(1-x(i-1)); %logistic map
    end
    M(:,pos)=x(end-n+1:end)';
end
hold all
plot(k_interval,M,'.k','MarkerSize',1)
xlabel('k')
ylabel('x')
set(gca,'fontsize',12)
set(gca,'fontweight','bold')
```



Matlab Code For Hopf Bifurcation

Rachel Sandford

Matlab Code For Hopf Bifurcation:

Introduction to Nonlinear Aeroelasticity Grigorios Dimitriadis,2017-03-01 Introduction to Nonlinear Aeroelasticity Introduces the latest developments and technologies in the area of nonlinear aeroelasticity Nonlinear aeroelasticity has become an increasingly popular research area in recent years There have been many driving forces behind this development increasingly flexible structures nonlinear control laws materials with nonlinear characteristics and so on Introduction to Nonlinear Aeroelasticity covers the theoretical basics in nonlinear aeroelasticity and applies the theory to practical problems As nonlinear aeroelasticity is a combined topic necessitating expertise from different areas the book introduces methodologies from a variety of disciplines such as nonlinear dynamics bifurcation analysis unsteady aerodynamics non smooth systems and others The emphasis throughout is on the practical application of the theories and methods so as to enable the reader to apply their newly acquired knowledge Key features Covers the major topics in nonlinear aeroelasticity from the galloping of cables to supersonic panel flutter Discusses nonlinear dynamics bifurcation analysis numerical continuation unsteady aerodynamics and non smooth systems Considers the practical application of the theories and methods Covers nonlinear dynamics bifurcation analysis and numerical methods Accompanied by a website hosting Matlab code Introduction to Nonlinear Aeroelasticity is a comprehensive reference for researchers and workers in industry and is also a useful introduction to the subject for graduate and undergraduate students across engineering disciplines *Mathematical Modelling* Seyed M. Moghadas,Majid Jaberi-Douraki,2018-07-24 An important resource that provides an overview of mathematical modelling Mathematical Modelling offers a comprehensive guide to both analytical and computational aspects of mathematical modelling that encompasses a wide range of subjects The authors provide an overview of the basic concepts of mathematical modelling and review the relevant topics from differential equations and linear algebra The text explores the various types of mathematical models and includes a range of examples that help to describe a variety of techniques from dynamical systems theory The book s analytical techniques examine compartmental modelling stability bifurcation discretization and fixed point analysis The theoretical analyses involve systems of ordinary differential equations for deterministic models The text also contains information on concepts of probability and random variables as the requirements of stochastic processes In addition the authors describe algorithms for computer simulation of both deterministic and stochastic models and review a number of well known models that illustrate their application in different fields of study This important resource Includes a broad spectrum of models that fall under deterministic and stochastic classes and discusses them in both continuous and discrete forms Demonstrates the wide spectrum of problems that can be addressed through mathematical modelling based on fundamental tools and techniques in applied mathematics and statistics Contains an appendix that reveals the overall approach that can be taken to solve exercises in different chapters Offers many exercises to help better understand the modelling process Written for graduate students in applied mathematics instructors and

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