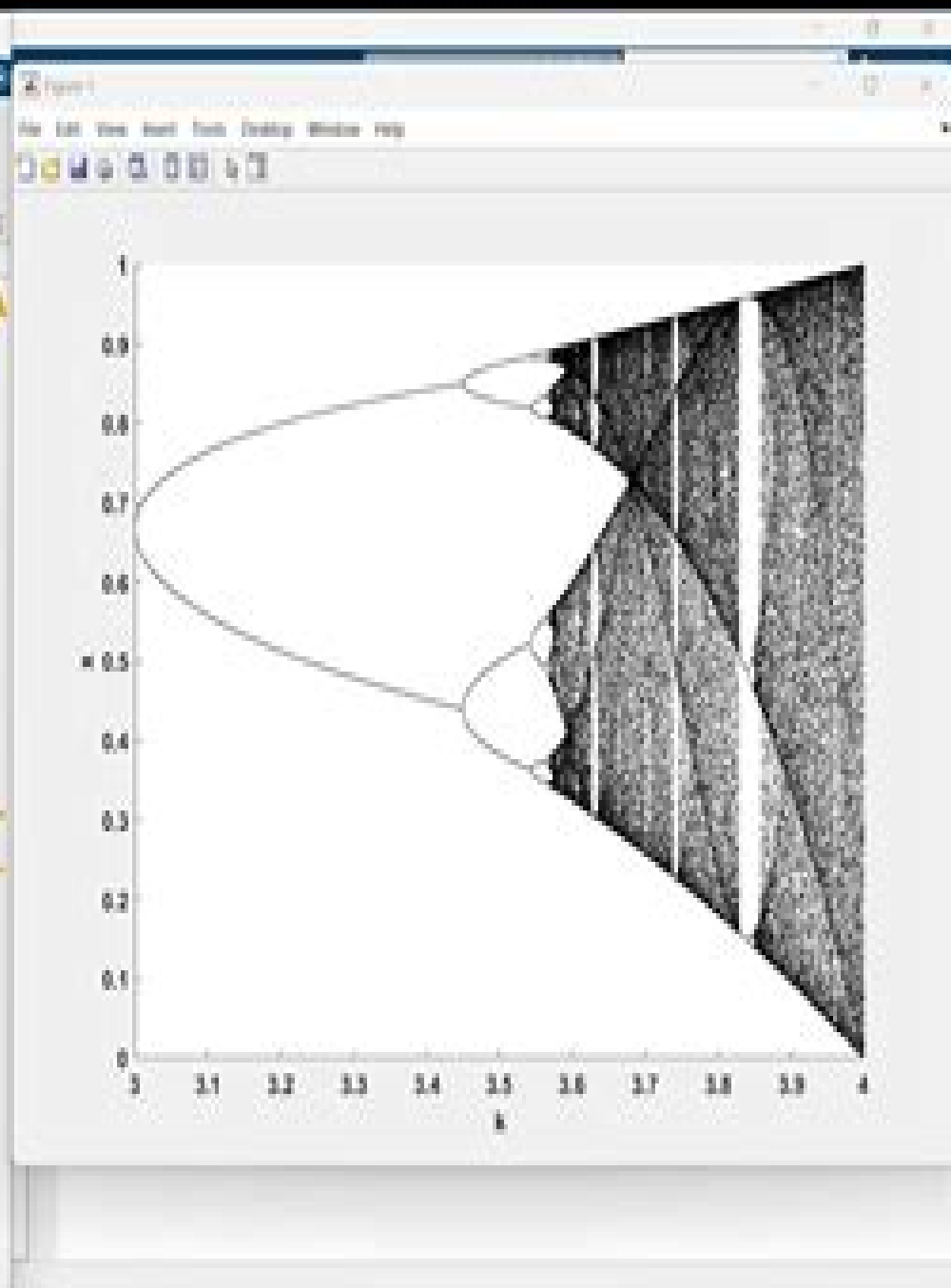


```
1 Initial condition
2 x(1)=0.551;
3 % parameter interval
4 k_min=3;
5 k_max=4;
6 Iteration step
7 ts=0.0001;
8 k_interval=k_min:(1/k_max);
9 pos=0; % internal variable for position counting
10 Iteration parameters
11 m=0.9;
12 w=0.6;
13 for k=k_interval
14     pos=pos+1;
15     for i=2:N
16         x(i)=k*x(i-1)*(1-x(i-1)); %logistic map
17     end
18     P(:,pos)=x(end-m+1:end)';
19 end
20 hold all
21 plot(k_interval,P,'k','MarkerSize',2)
22 xlabel('k')
23 ylabel('x')
24 set(gca,'fontSize',12)
25 set(gca,'fontweight','bold')
```



# Matlab Code For Hopf Bifurcation

**Hung Nguyen-Schäfer**



## **Matlab Code For Hopf Bifurcation:**

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professionals using mathematical modelling for research and training purposes **Mathematical Modelling A Graduate Textbook** covers a broad range of analytical and computational aspects of mathematical modelling **Mathematical Modeling** Antonio Palacios, 2022-09-19 This book provides qualitative and quantitative methods to analyze and better understand phenomena that change in space and time An innovative approach is to incorporate ideas and methods from dynamical systems and equivariant bifurcation theory to model analyze and predict the behavior of mathematical models In addition real life data is incorporated in the derivation of certain models For instance the model for a fluxgate magnetometer includes experiments in support of the model The book is intended for interdisciplinary scientists in STEM fields who might be interested in learning the skills to derive a mathematical representation for explaining the evolution of a real system Overall the book could be adapted in undergraduate and postgraduate level courses with students from various STEM fields including mathematics physics engineering and biology **Biology in Time and Space: A Partial Differential Equation Modeling Approach** James P. Keener, 2021-06-02 How do biological objects communicate make structures make measurements and decisions search for food i e do all the things necessary for survival Designed for an advanced undergraduate audience this book uses mathematics to begin to tell that story It builds on a background in multivariable calculus ordinary differential equations and basic stochastic processes and uses partial differential equations as the framework within which to explore these questions **Rotordynamics of Automotive Turbochargers** Hung Nguyen-Schäfer, 2015-05-15 Rotordynamics of automotive turbochargers is dealt with in this book encompassing the widely working field of small turbomachines under real operating conditions at the very high rotor speeds up to 300000 rpm The broadly interdisciplinary field of turbocharger rotordynamics involves 1 Thermodynamics and Turbo Matching of Turbochargers 2 Dynamics of Turbomachinery 3 Stability Analysis of Linear Rotordynamics with the Eigenvalue Theory 4 Stability Analysis of Nonlinear Rotordynamics with the Bifurcation Theory 5 Bearing Dynamics of the Oil Film using the Two Phase Reynolds Equation 6 Computation of Nonlinear Responses of a Turbocharger Rotor 7 Aero and Vibroacoustics of Turbochargers 8 Shop and Trim Balancing at Two Planes of the Rotor 9 Tribology of the Bearing Surface Roughness 10 Design of Turbocharger Platforms using the Similarity Laws The rotor response of an automotive turbocharger at high rotor speeds is studied analytically computationally and experimentally Due to the nonlinear characteristics of the oil film bearings some nonlinear responses of the rotor besides the harmonic response 1X such as oil whirl oil whip and modulated frequencies occur in Waterfall diagram Additionally the influences of the surface roughness and oil characteristics on the rotor behavior friction and wear are discussed This book is written by an industrial R D expert with many years of experience in the automotive and turbocharger industries The all in one book of turbochargers is intended for scientific and engineering researchers practitioners working in the rotordynamics field of automotive turbochargers and graduate students in applied physics and mechanical engineering **IUTAM Symposium on Nonlinear Dynamics for Advanced Technologies and**

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subject for graduate and undergraduate students across engineering disciplines      *A Course in Ordinary Differential Equations* Stephen A. Wirkus, Randall J. Swift, 2014-12-15 *A Course in Ordinary Differential Equations* Second Edition teaches students how to use analytical and numerical solution methods in typical engineering physics and mathematics applications. Lauded for its extensive computer code and student friendly approach the first edition of this popular textbook was the first on ordinary differential equations.

**Hopf Bifurcation Analysis** Jorge L. Moiola, Guanrong Chen, 1996 This book is devoted to the frequency domain approach for both regular and degenerate Hopf bifurcation analyses. Besides showing that the time and frequency domain approaches are in fact equivalent the fact that many significant results and computational formulas obtained in the studies of regular and degenerate Hopf bifurcations from the time domain approach can be translated and reformulated into the corresponding frequency domain setting and be reconfirmed and rediscovered by using the frequency domain methods is also explained. The description of how the frequency domain approach can be used to obtain several types of standard bifurcation conditions for general nonlinear dynamical systems is given as well as is demonstrated a very rich pictorial gallery of local bifurcation diagrams for nonlinear systems under simultaneous variations of several system parameters. In conjunction with this graphical analysis of local bifurcation diagrams the defining and nondegeneracy conditions for several degenerate Hopf bifurcations is presented. With a great deal of algebraic computation some higher order harmonic balance approximation formulas are derived for analyzing the dynamical behavior in small neighborhoods of certain types of degenerate Hopf bifurcations that involve multiple limit cycles and multiple limit points of periodic solutions. In addition applications in chemical mechanical and electrical engineering as well as in biology are discussed. This book is designed and written in a style of research monographs rather than classroom textbooks so that the most recent contributions to the field can be included with references.

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