

MATHEMATICAL MODELLING: THEORY AND APPLICATIONS

# MATHEMATICAL AND NUMERICAL MODELLING IN ELECTRICAL ENGINEERING

Theory and Applications

Michal Křížek and Pekka Neittaanmäki

Springer-Science+Business Media, B.V.

# Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications

**H.A. Mastebroek, J.E. Vos**



## **Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications:**

Mathematical and Numerical Modelling in Electrical Engineering Theory and Applications Michal Krízek, Pekka Neittaanmäki, 2013-03-09 Mathematical modeling plays an essential role in science and engineering. Costly and time-consuming experiments if they can be done at all are replaced by computational analysis. In industry, commercial codes are widely used. They are flexible and can be adjusted for solving specific problems of interest. Solving large problems with tens or hundreds of thousands of unknowns becomes routine. The aim of analysis is to predict the behavior of the engineering and physical reality usually within the constraints of cost and time. Today, human cost and time are more important than computer cost. This trend will continue in the future. Agreement between computational results and reality is related to two factors, namely, mathematical formulation of the problems and the accuracy of the numerical solution. The accuracy has to be understood in the context of the aim of the analysis. A small error in an inappropriate norm does not necessarily mean that the computed results are usable for practical purposes.

**Foundations of Generic Optimization** M. Iglesias, B. Naudts, C. Vidal, 2005-07-06 Vol 2 This is a comprehensive overview of the basics of fuzzy control which also brings together some recent research results in soft computing in particular fuzzy logic using genetic algorithms and neural networks. This book offers researchers not only a solid background but also a snapshot of the current state of the art in this field. It will appeal to researchers and professionals in soft computing in particular in development of theory and applications of fuzzy logic, genetic algorithms, and neural networks.

*Plausible Neural Networks for Biological Modelling* H.A. Mastebroek, J.E. Vos, 2012-12-06 The expression Neural Networks refers traditionally to a class of mathematical algorithms that obtain their proper performance while they learn from examples or from experience. As a consequence, they are suitable for performing straightforward and relatively simple tasks like classification, pattern recognition, and prediction, as well as more sophisticated tasks like the processing of temporal sequences and the context-dependent processing of complex problems. Also, a wide variety of control tasks can be executed by them, and the suggestion is relatively obvious that neural networks perform adequately in such cases because they are thought to mimic the biological nervous system, which is also devoted to such tasks. As we shall see, this suggestion is false but does not do any harm as long as it is only the final performance of the algorithm which counts. Neural networks are also used in the modelling of the functioning of sub-systems in the biological nervous system. It will be clear that in such cases it is certainly not irrelevant how similar their algorithm is to what is precisely going on in the nervous system. Standard artificial neural networks are constructed from units roughly similar to neurons that transmit their activity similar to membrane potentials or to mean firing rates to other units via weight factors similar to synaptic coupling efficacies.

**The FitzHugh-Nagumo Model** C. Rocsoreanu, A. Georgescu, N. Giurgiteanu, 2012-12-06 The present monograph analyses the FitzHugh-Nagumo (F-N) model. Let the Cauchy problem for some generalized Van der Pol equation depending on three real parameters  $a$ ,  $b$ , and  $c$ . This model given in (1.17) governs the

initiation of the cardiac impulse The presence of the three parameters leads to a large variety of dynamics each of them responsible for a specific functioning of the heart For physiologists it is highly desirable to have a global view of all possible qualitatively distinct responses of the F N model for all values of the parameters This reduces to the knowledge of the global bifurcation diagram So far only a few partial results appeared and they were spread throughout the literature Our work provides a more or less complete theoretical and numerical investigation of the complex phase dynamics and bifurcations associated with the F N dynamical system This study includes the static and dynamic bifurcations generated by the variation of a parameter and the corresponding oscillations of special interest for applications It enables one to predict all possible types of initiations of heart beats and the mechanism of transformation of some types of oscillations into others by following the dynamics along transient phase space trajectories Of course all these results hold for the F N model The global phase space picture enables one to determine the domain of validity of this model

### **Analysis and Control of Age-Dependent**

**Population Dynamics** S. Anita, 2013-04-17 The material of the present book is an extension of a graduate course given by the author at the University Al I Cuza Iasi and is intended for students and researchers interested in the applications of optimal control and in mathematical biology Age is one of the most important parameters in the evolution of a biological population Even if for a very long period age structure has been considered only in demography nowadays it is fundamental in epidemiology and ecology too This is the first book devoted to the control of continuous age structured population dynamics It focuses on the basic properties of the solutions and on the control of age structured population dynamics with or without diffusion The main goal of this work is to familiarize the reader with the most important problems approaches and results in the mathematical theory of age dependent models Special attention is given to optimal harvesting and to exact controllability problems which are very important from the economical or ecological points of view We use some new concepts and techniques in modern control theory such as Clarke's generalized gradient Ekeland's variational principle and Carleman estimates The methods and techniques we use can be applied to other control problems

### **Evolution of**

**Biological Systems in Random Media: Limit Theorems and Stability** Anatoly Swishchuk, Jianhong Wu, 2013-04-17 This is a new book in biomathematics which includes new models of stochastic non linear biological systems and new results for these systems These results are based on the new results for non linear difference and differential equations in random media This book contains New stochastic non linear models of biological systems such as biological systems in random media epidemic genetic selection demography branching logistic growth and predator prey models New results for scalar and vector difference equations in random media with applications to the stochastic biological systems in 1 New results for stochastic non linear biological systems such as averaging merging diffusion approximation normal deviations and stability New approach to the study of stochastic biological systems in random media such as random evolution approach

### **The**

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Cohen,Christophe Rabut,Larry L. Schumaker,2000 Two new volumes of carefully refereed and edited papers on the most  
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## **Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications**

1. Understanding the eBook Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
  - The Rise of Digital Reading Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications

### Applications

- Personalized Recommendations
  - Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications User Reviews and Ratings
  - Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications and Bestseller Lists
5. Accessing Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications Free and Paid eBooks
- Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications Public Domain eBooks
  - Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications eBook Subscription Services
  - Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications Budget-Friendly Options
6. Navigating Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications eBook Formats
- ePub, PDF, MOBI, and More
  - Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications Compatibility with Devices
  - Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
  - Highlighting and Note-Taking Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
  - Interactive Elements Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
8. Staying Engaged with Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
9. Balancing eBooks and Physical Books Mathematical And Numerical Modelling In Electrical Engineering Theory And

### Applications

- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
    - Setting Reading Goals Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
    - Fact-Checking eBook Content of Mathematical And Numerical Modelling In Electrical Engineering Theory And Applications
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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