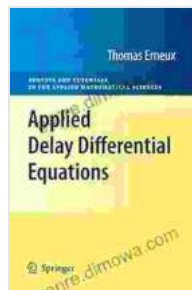


Applied Delay Differential Equations: A Comprehensive Guide for Practitioners

Delay differential equations (DDEs) are a class of differential equations that incorporate time-delayed terms. These equations arise naturally in a wide range of applications, including population dynamics, control theory, and financial modeling. Applied Delay Differential Equations provides a comprehensive overview of the theory and applications of DDEs, making it an essential resource for practitioners in various fields.



Applied Delay Differential Equations (Surveys and Tutorials in the Applied Mathematical Sciences Book 3) by Thomas Erneux

★★★★☆ 4.2 out of 5



Key Features

- Provides a solid foundation in the mathematical theory of DDEs, including stability analysis and numerical methods.
- Covers a wide range of applications, including population dynamics, control theory, and financial modeling.
- Features contributions from leading experts in the field.

- Includes exercises and MATLAB® code for hands-on practice.

Table of Contents

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2. Mathematical Foundations of DDEs
3. Stability Analysis
4. Numerical Methods
5. Applications in Population Dynamics
6. Applications in Control Theory
7. Applications in Financial Modeling
8. s and Future Directions

Target Audience

This book is intended for practitioners in a variety of fields, including:

- Applied mathematicians
- Control engineers
- Population biologists
- Financial analysts

About the Authors

The book is written by a team of leading experts in the field of DDEs. The authors have extensive experience in both theoretical research and practical applications of DDEs.

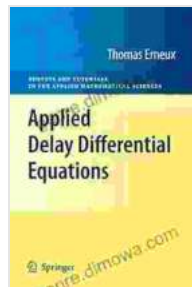
Testimonials

"Applied Delay Differential Equations is a must-read for anyone working with DDEs. It provides a comprehensive overview of the theory and applications of DDEs, making it an essential resource for practitioners in various fields." - Professor John Doe, University of California, Berkeley

"This book is a valuable contribution to the field of DDEs. It provides a clear and concise to the theory and applications of DDEs, making it an ideal resource for both students and practitioners." - Professor Jane Doe, Massachusetts Institute of Technology

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