

# Birth rate effects on an age-structured predator-prey model with cannibalism in the prey

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## Abstract

In this work, we develop a family of predator-prey models with age structure and cannibalism in the prey population. It consists of systems of  $m$  ordinary differential equations, where  $m$  is a parameter associated to new proposed prey birth rates. We discuss how these new birth rates give the required flexibility to produce differential systems with well behaved solutions. The main feature required in these models is the coexistence among the involved species, which translates mathematically in stable equilibria and periodic solutions. The search for such characteristics is based on heuristic predation functions that account for cannibalism in the prey.

**keywords** Age-structured model, Cannibalism, Predator-prey, Birth rate.

## 1 Introduction

The modeling of predator-prey populations is an intensive research area where a wide variety of models are proposed to describe and to analyze different mechanisms such as control of populations, oscillations of populations, delay maturation time effects, pattern formation in predator-prey models with diffusion and so on, see for example [1, 3, 4, 5, 9, 10, 11, 12, 15, 17]. One relevant feature in these models is the predator-prey coexistence, which is of vital importance to obtain realistic models of predator-prey interactions. Mathematically, a first type of coexistence is established by stable equilibria which are the most basic solutions to the models. A second type of coexistence is given by stable periodic solutions and this is the most common accepted type in predator-prey ecological systems, however, it is technically more difficult to achieve.

Our first goal is to propose and analyze models derived from the classical approach suggested by Gurtin and MacCamy [9, 10] for predator-prey population models with age structure. Such approach has a starting point given

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### **Table of Contents Applied Abstract Analysis**

1. Understanding the eBook Applied Abstract Analysis
  - The Rise of Digital Reading Applied Abstract Analysis
  - Advantages of eBooks Over Traditional Books
2. Identifying Applied Abstract Analysis
  - 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 Applied Abstract Analysis
  - User-Friendly Interface
4. Exploring eBook Recommendations from Applied Abstract Analysis

- Personalized Recommendations
- Applied Abstract Analysis User Reviews and Ratings
- Applied Abstract Analysis and Bestseller Lists
- 5. Accessing Applied Abstract Analysis Free and Paid eBooks
  - Applied Abstract Analysis Public Domain eBooks
  - Applied Abstract Analysis eBook Subscription Services
  - Applied Abstract Analysis Budget-Friendly Options
- 6. Navigating Applied Abstract Analysis eBook Formats
  - ePub, PDF, MOBI, and More
  - Applied Abstract Analysis Compatibility with Devices
  - Applied Abstract Analysis Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Applied Abstract Analysis
  - Highlighting and Note-Taking Applied Abstract Analysis
  - Interactive Elements Applied Abstract Analysis
- 8. Staying Engaged with Applied Abstract Analysis
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Applied Abstract Analysis
- 9. Balancing eBooks and Physical Books Applied Abstract Analysis
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Applied Abstract Analysis
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Applied Abstract Analysis
  - Setting Reading Goals Applied Abstract Analysis
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Applied Abstract Analysis

- Fact-Checking eBook Content of Applied Abstract Analysis
- 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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