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Научная статья





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#### Математическая модель системы управления pH в in vitroмодели желудочно-кишечного тракта домашней птицы

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#### ARRESTRACTOR

Весфение. Существенная нелинейность химических реакций кислот и оснований определяет адгоритмы управления в режиме подкисления или подшелачивания, то есть периодической дозащив минимального объема кислоты или шелочи. Такое регулирование может быть малоэффективным, т. с. допускает недостаточную или избыточную концентрацию контролируемого вещества. Статья посавщена проблеме точного регулирования водородного показателя в мини-биореакторах. Предлагается непользовать цифровую модель системы управления кислотностью для подбора концентраций доливаемых растворов, определения методики регулирования и повышения точности. Цель работы — обеспечение требуемой точности регулирования pH в in vitro мини-моделя желудочно-кишечного тракта статического типа.

Метериалы и методы. Исходная структурная схема модели включает наконители и потоки. Она представляет собой базу для основных дифференциальных уравнений, характеризующих изменение объема и кислотности. Для корректировки показаний кислотности результирующего раствора по температуре создана статическая модель, основаниям на полиномиальной аппроксимации экспериментальных данных методом наименьших квадратов. В прикладном пакете Matlab Simulink исследованы структурные элементы математической модели. На реальной системе in vitro моделирования искусственного желудочно-вишечного тракта домашней птицы определены переходиме характеристики для подтверждения адекватности математической модели.

Резульнаемы исследования. В рамках данной работы авторы создали и прознализировали ислинейную математическую модель изменения pH в биореакторе с учетом внешних управляющих воздействий. Потоки раствора соляной кислоты, раствора шелочи и слива раствора из реактора представлены как элементы дифференциального уравнения, описывающието накопление жидкости в реакторе. Для повышения точности решение доработали с учетом температурной зависимости водородного показателя. Предложена математическая модель дозирования на основе регулятора с каналами шелочи и кислоты. Полученные позволили генерировать объединенную модель процесса регулирования pH в биореакторе. Адематностърешения подтвердили опытным путем. В виде структурных слем показаны модели: регулятора pH, регулирования объема содержимого в реакторе и химических реакций. Сравниваются переходные процессы математической модели и реальной системы управления. Установлено, что переходные характеристики математической модели и реальной системы идентичны по времени регулирования. Относительная погрешность регулирования реальной системы составила 0,35 %, а математической модели — 0,1 %, что соответствует требуемой точности регулирования ±0,1 pH. В виде графиков показано влияние исследованных потоков на реакцию исйтрализации.

Обсужовение и заключение. Предлагаемая математическая модель позволят подобрать оптимальные методы и алгоритмы регулирования вислотности, что ускорит создание регулятора нелинейного процесса регулирования водородието показателя. В будущем эти наработки можно интегрировать в комплексную цифровую модельвсего искусственного желудочно-кишечного тракта домашней птицы для оптимизация алгоритмов управления (дозации, перемешивания, периодичности и т. п.), а также анпроксимации к объектам ів vivo.

# <u>Sistemy I Modeli Mabovogo Obsluzhivaniia V</u> Kommercheskoi Deiatelnosti

**Rachel S Tattersall** 

Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti:

The book delves into Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti. Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti
  - o Chapter 2: Essential Elements of Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti
  - o Chapter 3: Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti in Everyday Life
  - Chapter 4: Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti in Specific Contexts
  - ∘ Chapter 5: Conclusion
- 2. In chapter 1, this book will provide an overview of Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti. The first chapter will explore what Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti is, why Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti is vital, and how to effectively learn about Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti.
- 3. In chapter 2, this book will delve into the foundational concepts of Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti. The second chapter will elucidate the essential principles that must be understood to grasp Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti in daily life. The third chapter will showcase real-world examples of how Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti can be effectively utilized in everyday scenarios.
- 5. In chapter 4, the author will scrutinize the relevance of Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti in specific contexts. This chapter will explore how Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, the author will draw a conclusion about Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti. The final chapter will summarize the key points that have been discussed throughout the book. The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Sistemy I Modeli Mabovogo Obsluzhivaniia V Kommercheskoi Deiatelnosti.

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