

АНАЛИЗ И МОДЕЛИРОВАНИЕ АВТОНОМНОЙ ФОТОЭЛЕКТРИЧЕСКОЙ СИСТЕМЫ С ИСПОЛЬЗОВАНИЕМ СРЕДЫ MATLAB/SIMULINK

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Аннотация: Использование возобновляемых источников энергии и, в частности, солнечной энергии привлекло значительное внимание в последние десятилетия. Проекты по производству фотоэлектрической (PV) энергии реализуются в очень большом количестве во многих странах. Многие исследовательские работы проводятся для анализа и проверки производительности фотоэлектрических модулей. Реализация экспериментальной установки для фотоэлектрической энергосистемы с преобразователем постоянного тока для проверки производительности системы не всегда возможна из-за практических ограничений. Программная имитационная модель помогает анализировать производительность фотоэлектрических модулей, и более полезной будет общая схемная модель, которую можно использовать для проверки любого коммерческого фотоэлектрического модуля. В данной работе представлено моделирование математической модели фотоэлектрического модуля, повышающего преобразователя постоянного тока в переменный, а также было проведено моделирование режимов работы солнечной генерирующей системы при различных нагрузочных характеристиках. Модель, представленная в этой статье, может использоваться как обобщенный фотоэлектрический модуль для анализа производительности любых коммерчески доступных фотоэлектрических модулей. В представленной работе исследовались параметры, которые влияют на производительность генерирующей системы. Результаты получены для работы фотоэлектрических преобразователей постоянного тока в переменный. Представленные характеристики сильно зависят от таких параметров, как солнечная инсоляция, температура рабочей поверхности фотоэлектрического модуля, время заряда-разряда аккумуляторных батарей и др. При изменении одного из значений этих параметров меняются режимы работы солнечной электрогенерирующей батареи. Изменение режимов работы может привести к сбоям всей работы системы, поэтому необходим контроль всех энергетических характеристик установок. Достичь повышения эффективности генерации системы способны предложенные в этой работе действия, направленные на изучение работы фотоэлектрической системы и системы накопления энергии, а также использование необходимых вспомогательных устройств для контроля и управления параметрами установок. Исследования, проведенные в ходе представленной работы, позволяют повысить уровень знаний по контролю и управлению параметрами фотоэлектрических генерирующих установок и расширить возможности их бесперебойной работы и увеличения энерговыработки.

Предмет исследования. Предмет исследования. Анализ и проверка производительности фотоэлектрических модулей.

Материалы и методы. В работе были проведены Реализация экспериментальной установки для фотоэлектрической энергосистемы с преобразователем постоянного тока для проверки производительности системы и исследования действующей компьютерного моделирования параметров интегрированной системой солнечной генерации фотоэлектрическими с использованием программной среды Matlab, а также методы теоретического анализа, математические и статистические методы, необходимые для обработки материалов исследования.

Результаты. оптимизировать работу фотоэлектрических систем и повысить их эффективность.

Выводы. По результатам можно сделать заключение об увеличении эффективности работы солнечных установок с подобными блоками Simulink, что делает её легко моделируемой и анализируемой в сочетании с силовой электроникой для работы системы с максимальной мощностью. Принимая во внимание влияние солнечного излучения и температуры ячейки на выходной ток и мощностные характеристики модуля при помощи предложенной модели возможно значительно увеличить эффективность работы всей установки.

Ключевые слова: Автономная фотоэлектрическая система, программа Matlab/Simulink, фотоэлектрические панели, аккумуляторная батарея, контроллер, нагрузка, температура, энергопроизводительность системы, солнечная генерирующая установка.

Sistemy Kontrolia Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti

Lauren Gardner



Sistemy Kontrolia Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti:

The book delves into *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti*. *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti* is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti*, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti*
 - Chapter 2: Essential Elements of *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti*
 - Chapter 3: *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti* in Everyday Life
 - Chapter 4: *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti* in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti*. This chapter will explore what *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti* is, why *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti* is vital, and how to effectively learn about *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti*.
3. In chapter 2, this book will delve into the foundational concepts of *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti*. This chapter will elucidate the essential principles that need to be understood to grasp *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti* in its entirety.
4. In chapter 3, this book will examine the practical applications of *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti* in daily life. The third chapter will showcase real-world examples of how *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti* can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti* in specific contexts. This chapter will explore how *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti* is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about *Sistemy Kontrolya Za Ispolzovaniem Munitsialnykh Finansov I*

Munitsipalnoi Sobstvennosti. This chapter will summarize the key points that have been discussed throughout the book. This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Sistemy Kontrolia Za Ispolzovaniem Munitsialnykh Finansov I Munitsipalnoi Sobstvennosti.

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