Modeling, Simulation and Adaptive Control Engineering Systems and Sustainability: A Comprehensive Guide

In the face of urgent global challenges such as climate change and resource depletion, the need for sustainable engineering solutions has become more pressing than ever before. Modeling, simulation, and adaptive control engineering systems play a critical role in addressing these challenges by enabling the design and optimization of sustainable and efficient systems across a wide range of industries.

This comprehensive guide provides a deep dive into the theory and practice of modeling, simulation, and adaptive control engineering systems, with a particular focus on their application in sustainability. Written by leading experts in the field, this book offers a comprehensive understanding of how these techniques can be used to develop innovative solutions for a sustainable future.

Multi-Stage Flash Desalination: Modeling, Simulation, and Adaptive Control (Engineering Systems and Sustainability) by Bill Mesler

4 out of 5

Language	: English
File size	: 24351 KB
Screen Reader	: Supported
Print length	: 60 pages
Lending	: Enabled

Key Features

- Covers the fundamental principles of modeling, simulation, and adaptive control engineering systems
- Explores the application of these techniques in a wide range of sustainability-related fields, including smart cities, renewable energy, and energy efficiency
- Provides detailed case studies and real-world examples to illustrate the practical implementation of these technologies
- Features contributions from leading researchers and practitioners in the field

Target Audience

This book is intended for a wide range of readers, including:

- Students and researchers in the field of modeling, simulation, and adaptive control engineering
- Engineers and practitioners working on sustainability-related projects
- Policymakers and decision-makers responsible for developing and implementing sustainable solutions

Contents

4. Future Directions and Emerging Trends

Benefits of Reading This Book

By reading this book, you will gain a comprehensive understanding of the following:

- The fundamental principles of modeling, simulation, and adaptive control engineering systems
- The application of these techniques in a wide range of sustainability-related fields
- The challenges and opportunities associated with developing sustainable engineering solutions
- The latest research and development trends in modeling, simulation, and adaptive control engineering systems for sustainability

About the Authors

The book is authored by a team of leading experts in the field of modeling, simulation, and adaptive control engineering systems for sustainability. Each author brings a wealth of experience and knowledge to the book, providing a comprehensive and authoritative perspective on the subject matter.

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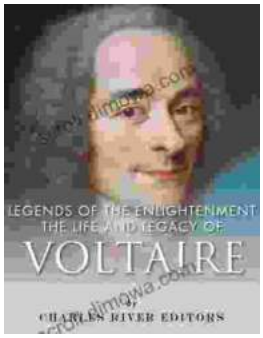

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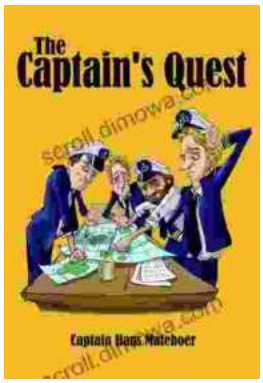

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