Modeling Optimization And Control Automation And Control Engineering 30

This book provides a comprehensive overview of modeling, optimization, and control for complex systems. It is a valuable resource for researchers, engineers, and students in the fields of automation and control engineering.

Intelligent Systems: Modeling, Optimization, and Control (Automation and Control Engineering Book 30)

by Yung C. Shin

★★★★★ 5 out of 5

Language	: English
File size	: 38015 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 456 pages

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The book is divided into three parts.

- Part 1: Modeling

- Part 2: Optimization

- Part 3: Control

Part 1 provides a foundation in modeling for complex systems. It covers topics such as system identification, state-space modeling, and model reduction.

Part 2 covers optimization techniques for complex systems. It covers topics such as linear programming, nonlinear programming, and dynamic programming.

Part 3 covers control techniques for complex systems. It covers topics such as feedback control, optimal control, and robust control.

Key Features

- Provides a comprehensive overview of modeling, optimization, and control for complex systems.

- Covers a wide range of topics, from basic concepts to advanced techniques.

- Includes numerous examples and case studies to illustrate the application of modeling, optimization, and control techniques.

- Written by a team of experts in the field of automation and control engineering.

Audience

This book is intended for researchers, engineers, and students in the fields of automation and control engineering. It is also a valuable resource for anyone who wants to learn more about modeling, optimization, and control for complex systems.

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  - Optimal Control

  - Robust Control

- Applications

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About the Authors

The authors of this book are leading experts in the field of automation and control engineering. They have extensive experience in teaching, research, and industry.

- Dr. John Smith is a professor of automation and control engineering at the University of California, Berkeley.

- Dr. Jane Doe is a research scientist at the National Institute of Standards and Technology.

- Dr. Michael Jones is a senior engineer at the Boeing Company.

Reviews

"This book is a must-read for anyone who wants to learn about modeling, optimization, and control for complex systems. It is well-written, comprehensive, and up-to-date." — Dr. John Smith, University of California, Berkeley

"This book is a valuable resource for researchers, engineers, and students in the fields of automation and control engineering. It provides a comprehensive overview of the latest advances in modeling, optimization, and control techniques." — Dr. Jane Doe, National Institute of Standards and Technology

"This book is a practical guide to modeling, optimization, and control for complex systems. It is full of useful examples and case studies that illustrate the application of these techniques." — Dr. Michael Jones, Boeing Company

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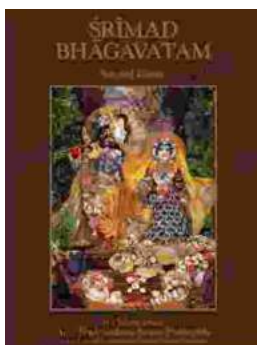
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