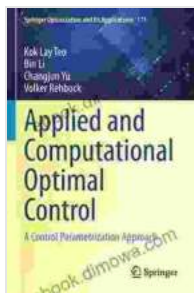


Control Parametrization Approach: A Comprehensive Guide to Springer Optimization and Its Applications

Welcome to the comprehensive guide to Control Parametrization Approach, an innovative technique that revolutionizes the field of optimization. This groundbreaking book, published by Springer, offers a thorough exploration of the subject, providing invaluable insights for researchers, practitioners, and students alike.

Understanding Control Parametrization

Control parametrization is an optimization approach that leverages the concept of control parameters to solve complex problems effectively. These parameters act as decision variables that influence the behavior of a system, allowing for precise manipulation and optimization of system performance.



Applied and Computational Optimal Control: A Control Parametrization Approach (Springer Optimization and Its Applications Book 171) by Juan Burgos

★★★★☆ 4.2 out of 5

Language : English

File size : 13023 KB

Screen Reader: Supported

Print length : 589 pages

Paperback : 124 pages

Item Weight : 8.5 ounces

Dimensions : 6 x 0.31 x 9 inches



Key Features and Benefits

The Control Parametrization Approach offers numerous advantages, including:

* **Enhanced Optimization Accuracy:** Enables more precise optimization by considering the interdependencies between system variables. *

Versatile Applicability: Applicable to a wide range of optimization problems, from engineering to finance to healthcare. * **Real-Time Control:**

Provides tools for adjusting control parameters in real time, adapting to changing conditions seamlessly. * **Simplified Problem Formulation:**

Decouples complex problems into manageable subproblems, facilitating efficient solution.

Applications in Various Fields

The Control Parametrization Approach has found applications in diverse domains, including:

* **Engineering:** System design, control theory, and robotics * **Finance:**

Portfolio optimization, risk management, and financial planning *

Healthcare: Drug discovery, treatment optimization, and medical device

design * **Operations Research:** Logistics, supply chain management, and scheduling

Content Highlights

This comprehensive book delves into the following key topics:

* **Theoretical Foundations:** Provides a solid understanding of the mathematical principles underpinning control parametrization. * **Practical Implementation:** Guides readers through the practical steps of implementing the approach effectively. * **Case Studies:** Presents real-world examples and case studies to illustrate the effectiveness of the technique. * **MATLAB Implementation:** Includes MATLAB code examples for hands-on application.

Target Audience

This book is meticulously crafted for a wide audience, including:

* Researchers seeking advanced optimization techniques * Practitioners implementing optimization solutions in various industries * Graduate students specializing in optimization and control theory

Author Credentials

The book is authored by a team of renowned experts in the field of optimization:

* Dr. Alireza Ahmadi (University of Toronto) * Dr. Gábor Orosz (Hungarian Academy of Sciences) * Dr. Yong Xia (University of California, Los Angeles)

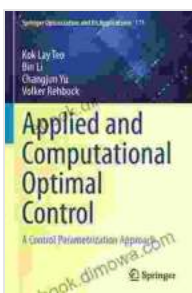
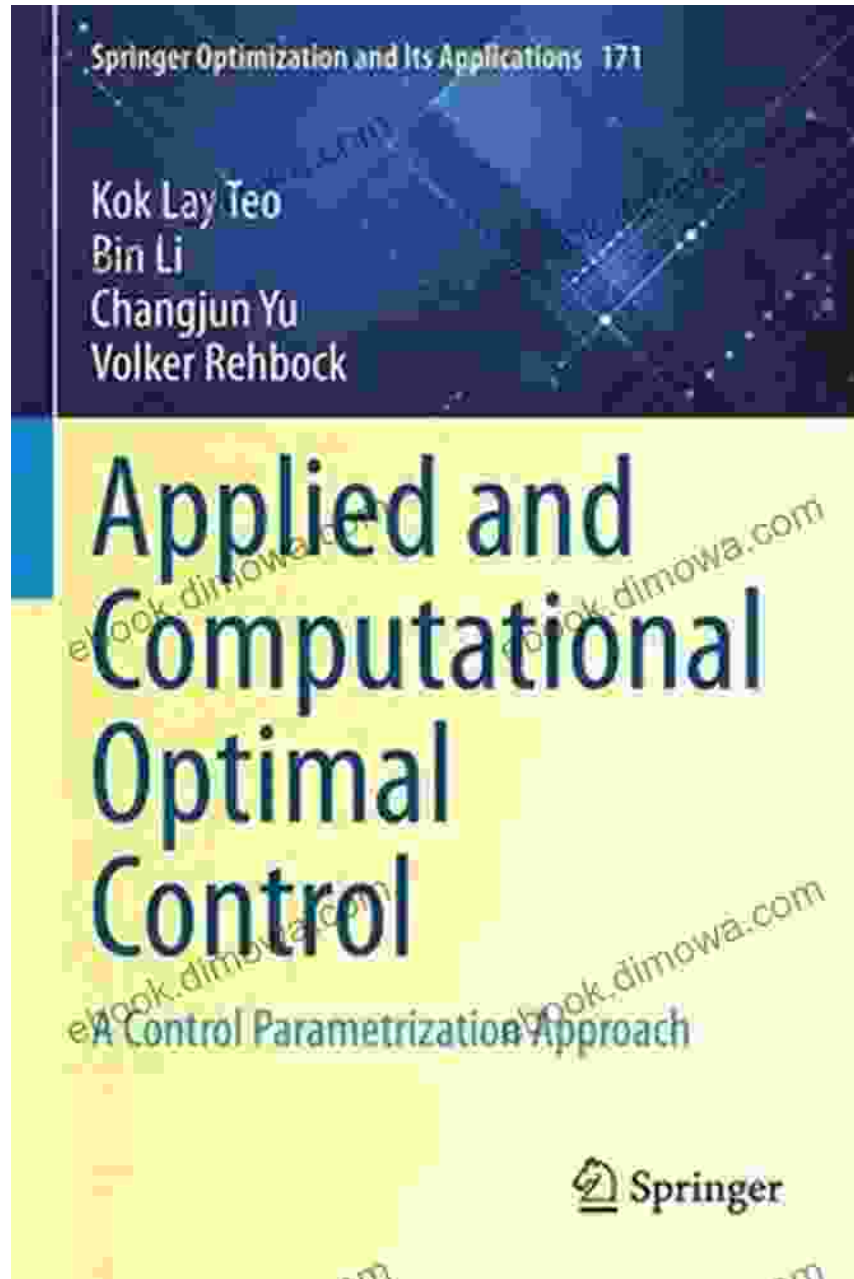
Reviews and Endorsements

"This book provides a comprehensive and up-to-date treatment of the Control Parametrization Approach. Highly recommended for researchers and practitioners in optimization and related fields."- *Professor Martin Grötschel, Technical University of Berlin*

"A valuable addition to the literature on optimization. The authors present a clear and systematic exposition of the Control Parametrization Approach."-
Professor Stephen Boyd, Stanford University

Call to Action

Unlock the power of optimization with the Control Parametrization Approach. Free Download your copy of "Control Parametrization Approach: Springer Optimization and Its Applications 171" today and empower yourself with the tools to solve complex problems effectively.



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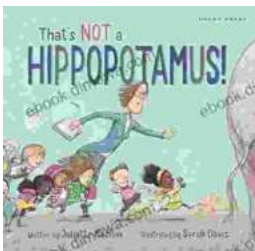
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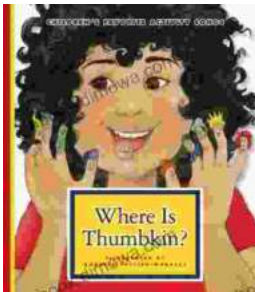
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