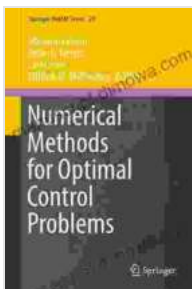


# Numerical Methods for Optimal Control Problems: Your Guide to Solving Real-World Challenges

In today's fast-paced, data-driven world, optimizing system performance is crucial for businesses, scientists, and engineers across industries.

Numerical Methods for Optimal Control Problems, the latest installment in Springer's prestigious Indam Series, empowers you with the tools and techniques to tackle complex optimal control problems and unlock the full potential of your systems.

Authored by leading experts in the field, this comprehensive volume delves into the fundamentals of optimal control theory and provides a practical, hands-on approach to solving real-world problems. From mathematical modeling and analysis to numerical simulation and implementation, Numerical Methods for Optimal Control Problems covers everything you need to master this essential discipline.



## Numerical Methods for Optimal Control Problems (Springer INdAM Series Book 29) by Christopher Burgess

★★★★★ 5 out of 5

Language : English

File size : 8915 KB

Screen Reader : Supported

Print length : 278 pages



## Why Numerical Methods for Optimal Control Problems?

Optimal control theory is a powerful tool for designing and optimizing systems in a wide range of fields, including:

- Aerospace engineering
- Robotics
- Chemical engineering
- Economics
- Finance

However, solving optimal control problems analytically can be extremely challenging, especially for complex systems with multiple variables and non-linear constraints. This is where numerical methods come into play.

Numerical methods provide a practical and computationally efficient way to approximate the solution to optimal control problems. By discretizing the problem and using iterative algorithms, numerical methods can find optimal solutions even for complex systems that are intractable analytically.

## **What You Will Learn from Numerical Methods for Optimal Control Problems**

Numerical Methods for Optimal Control Problems is designed to provide a thorough understanding of the subject, from basic concepts to advanced techniques. This book will equip you with the knowledge and skills to:

- Formulate optimal control problems mathematically
- Analyze the properties of optimal control problems

- Design and implement numerical methods for solving optimal control problems
- Apply numerical methods to solve real-world problems in various fields

Whether you are a student, researcher, or practitioner in optimal control, *Numerical Methods for Optimal Control Problems* will serve as an invaluable resource throughout your career.

### **Key Features of Numerical Methods for Optimal Control Problems**

- Comprehensive coverage of numerical methods for optimal control problems
- Written by leading experts in the field
- Provides a practical, hands-on approach to solving real-world problems
- Includes numerous examples and exercises to reinforce learning
- Suitable for students, researchers, and practitioners in optimal control

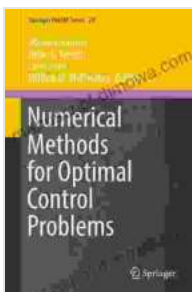
With *Numerical Methods for Optimal Control Problems*, you will gain the expertise to tackle complex system optimization challenges and drive innovation in your field.

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Free Download your copy today and embark on the journey to becoming an expert in optimal control.



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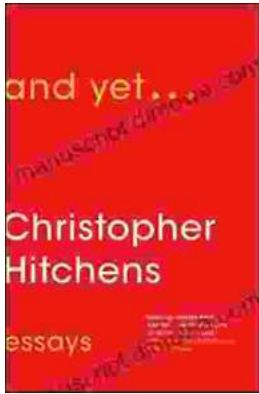
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