

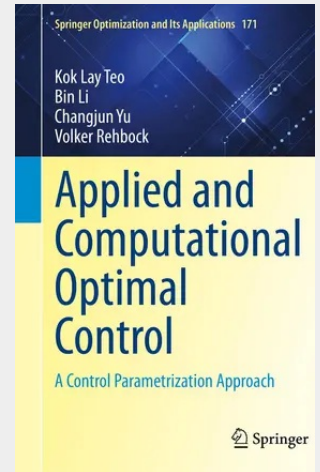
Applied and Computational Optimal Control

A Control Parametrization Approach

The aim of this book is to furnish the reader with a rigorous and detailed exposition of the concept of control parametrization and time scaling transformation. It presents computational solution techniques for a special class of constrained optimal control problems as well as applications to some practical examples. The book may be considered an extension of the 1991 monograph A Unified Computational Approach Optimal Control Problems, by K.L. Teo, C.J. Goh, and K.H. Wong. This publication discusses the development of new theory and computational methods for solving various optimal control problems numerically and in a unified fashion. To keep the book accessible and uniform, it includes those results developed by the authors, their students, and their past and present collaborators. A brief review of methods that are not covered in this exposition, is also included.

Knowledge gained from this book may inspire advancement of new techniques to solve complex problems that arise in the future. This book is intended as reference for researchers in mathematics, engineering, and other sciences, graduate students and practitioners who apply optimal control methods in their work. It may be appropriate reading material for a graduate level seminar or as a text for a course in optimal control.

Real world practical problems are introduced as illustrative examples Provides state-of-the-art fundamental results on a unified family of computational methods Methods may be implemented easily using the MISER software New theory and computational methods may be derived from knowledge gained in this book



117,69 €

109,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783030699154

Medium: Buch

ISBN: 978-3-030-69915-4

Verlag: Springer International Publishing

Erscheinungstermin: 26.05.2022

Sprache(n): Englisch

Auflage: 1. Auflage 2021

Serie: Springer Optimization and Its Applications

Produktform: Kartoniert

Gewicht: 885 g

Seiten: 574

Format (B x H): 155 x 235 mm

