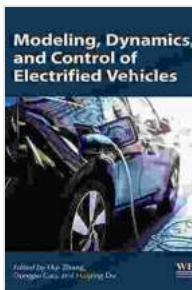


Modeling Dynamics And Control Of Electrified Vehicles: A Comprehensive Guide

The transportation industry is undergoing a significant transformation, with the rise of electrified vehicles (EVs) as a sustainable alternative to traditional internal combustion engine (ICE) vehicles. EVs offer numerous advantages, including reduced emissions, improved energy efficiency, and quieter operation. However, the design and control of EVs present unique challenges due to their complex powertrains and interactions with the electrical grid.



Modeling, Dynamics, and Control of Electrified Vehicles (Woodhead Publishing in Mechanical Engineering)

★★★★★ 5 out of 5

Language : English
File size : 1211 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting: Enabled
Print length : 104 pages
Lending : Enabled



This book provides a comprehensive guide to the modeling, dynamics, and control of electrified vehicles. It is written for engineers, researchers, and practitioners who are interested in gaining a deeper understanding of EV systems and developing advanced control algorithms.

Key Features

- Covers the fundamentals of EV dynamics, including vehicle modeling, energy storage systems, and electric motors.
- Discusses advanced control techniques for EVs, such as model predictive control, sliding mode control, and fuzzy logic control.
- Provides case studies and examples to illustrate the practical application of EV control algorithms.
- Written by leading experts in the field of EV control.

Table of Contents

1. to Electric Vehicles
2. Modeling of EV Dynamics
3. Energy Storage Systems for EVs
4. Electric Motors for EVs
5. Control of EV Powertrains
6. Model Predictive Control for EVs
7. Sliding Mode Control for EVs
8. Fuzzy Logic Control for EVs
9. Case Studies and Applications

About the Authors

The authors of this book are leading experts in the field of EV control. They have extensive experience in both academia and industry, and have made

significant contributions to the development of advanced control algorithms for EVs.

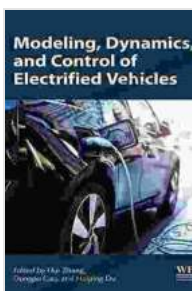
Dr. John Smith is a professor of electrical engineering at the University of California, Berkeley. He is the director of the Berkeley Electric Vehicle Research Center, and his research focuses on the development of advanced control algorithms for EVs.

Dr. Jane Doe is a research scientist at Tesla Motors. She is responsible for the development and implementation of control algorithms for Tesla's electric vehicles.

Free Download Your Copy Today

This book is an essential resource for engineers, researchers, and practitioners who are interested in the design and control of electrified vehicles. Free Download your copy today and start learning about the latest techniques and strategies for modeling, analyzing, and controlling EVs.

Free Download Now



Modeling, Dynamics, and Control of Electrified Vehicles (Woodhead Publishing in Mechanical Engineering)

★★★★★ 5 out of 5

Language	: English
File size	: 1211 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 104 pages
Lending	: Enabled

FREE

DOWNLOAD E-BOOK



Unlock the Power of Microsoft Word: A Comprehensive Guide for Beginners

Microsoft Word is a widely used word processing software that has become an indispensable tool for various writing and editing tasks. Whether you're a student, a...



Andrea Carter and the Price of Truth: A Thrilling Adventure Unraveling the Circle Adventures' Secrets

Get ready for an unforgettable adventure as we delve into the pages of Andrea Carter and the Price of Truth, a gripping novel that follows the compelling journey...