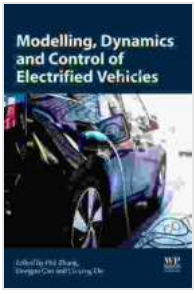
Modeling Dynamics and Control of Electrified Vehicles: Woodhead Publishing In.

Electrified vehicles (EVs) are becoming increasingly popular as a way to reduce emissions and improve fuel economy. However, the modeling and control of EVs is a complex task, due to the many different components that are involved. This book provides a detailed description of the modeling and control of EVs, providing readers with a solid foundation in this multidisciplinary field.



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

Modeling of Electrified Vehicles

The first part of the book covers the modeling of the various components of an EV. This includes the electric motor, battery, power electronics, and chassis. The authors provide a detailed discussion of the different modeling techniques that are available, and they also present case studies to illustrate how these techniques can be applied to real-world EVs.

Control of Electrified Vehicles

The second part of the book covers the control of EVs. This includes the control of the electric motor, battery, power electronics, and chassis. The authors provide a detailed discussion of the different control techniques that are available, and they also present case studies to illustrate how these techniques can be applied to real-world EVs.

Integration of Electrified Vehicles

The third part of the book covers the integration of EVs. This includes the integration of the EV with the power grid, and the integration of the EV with other vehicles. The authors provide a detailed discussion of the different integration techniques that are available, and they also present case studies to illustrate how these techniques can be applied to real-world EVs.

Future of Electrified Vehicles

The fourth part of the book covers the future of EVs. This includes a discussion of the challenges and opportunities that lie ahead for EVs. The authors provide their insights on the future of EVs, and they also offer recommendations for how to overcome the challenges and capitalize on the opportunities.

This book is a comprehensive guide to the modeling and control of EVs. It provides readers with a solid foundation in this multidisciplinary field, and it also offers insights into the future of EVs. The book is a valuable resource for researchers, engineers, and students who are interested in EVs.

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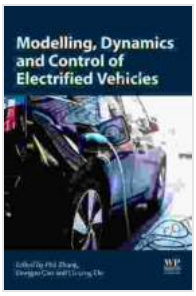

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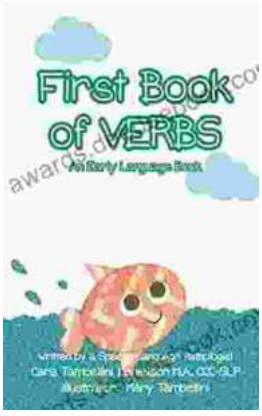

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