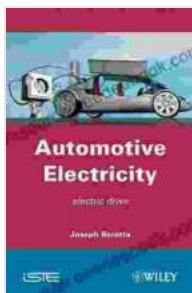


Automotive Electricity and Electric Drives by Maurice Leblanc: A Comprehensive Review of Electric Vehicle Technology

In the rapidly evolving world of automotive technology, electric vehicles (EVs) have emerged as a viable and sustainable alternative to traditional gasoline-powered vehicles. As the demand for EVs continues to grow, so too does the need for a thorough understanding of the underlying principles and technologies that make them possible. Maurice Leblanc's book, *Automotive Electricity and Electric Drives*, provides a comprehensive overview of the electrical systems and electric drives used in modern EVs.



Automotive Electricity: Electric Drives by Maurice Leblanc

★★★★☆ 4.3 out of 5

Language	: English
File size	: 7560 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 305 pages
Lending	: Enabled



Overview of the Book

Automotive Electricity and Electric Drives is divided into four main sections:

* **Fundamentals of Automotive Electricity:** This section covers the basic principles of electricity, including Ohm's law, Kirchhoff's laws, and magnetism. It also introduces the different types of electrical components

used in automotive applications, such as batteries, generators, and starters. * **Electric Drives:** This section explores the different types of electric drives used in EVs, including AC motors, DC motors, and brushless motors. It also discusses the principles of motor control and the different types of power electronics used to drive electric motors. * **Vehicle Electrification:** This section examines the different levels of vehicle electrification, including hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), and battery electric vehicles (BEVs). It also discusses the different charging technologies used to recharge EV batteries. * **Electric Vehicle Applications:** This section provides an overview of the different applications of EVs, including passenger cars, buses, and trucks. It also discusses the challenges and opportunities associated with the adoption of EVs.

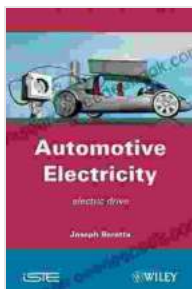
Key Features of the Book

* **Comprehensive coverage:** Automotive Electricity and Electric Drives provides a comprehensive overview of all aspects of automotive electricity and electric drives, making it an ideal reference for students, engineers, and technicians working in the automotive industry. * **Clear and concise explanations:** The book is written in a clear and concise style, making it easy to understand even for readers with no prior knowledge of automotive electricity or electric drives. * **Numerous illustrations and examples:** The book is well-illustrated with numerous diagrams, graphs, and tables, which help to clarify the concepts discussed in the text. * **Up-to-date information:** The book includes the latest information on electric vehicle technology, including the different types of electric drives, power electronics, and charging technologies.

Benefits of Reading the Book

* **Gain a deep understanding of automotive electricity and electric drives:** Automotive Electricity and Electric Drives provides a comprehensive overview of all aspects of automotive electricity and electric drives, making it an ideal resource for students, engineers, and technicians working in the automotive industry. * **Prepare for a career in the automotive industry:** The book provides the knowledge and skills necessary to work on electric vehicles, which are becoming increasingly popular as the world moves towards a more sustainable future. * **Stay up-to-date on the latest electric vehicle technology:** The book includes the latest information on electric vehicle technology, including the different types of electric drives, power electronics, and charging technologies. * **Appreciate the challenges and opportunities associated with the adoption of EVs:** The book discusses the challenges and opportunities associated with the adoption of EVs, providing readers with a well-rounded understanding of the future of transportation.

Automotive Electricity and Electric Drives is an essential resource for anyone who wants to learn about the electrical systems and electric drives used in modern electric vehicles. The book's comprehensive coverage, clear and concise explanations, and numerous illustrations make it an ideal reference for students, engineers, and technicians working in the automotive industry.



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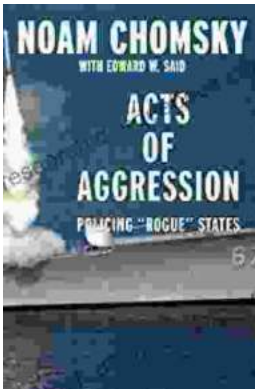
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