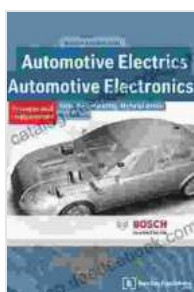


Bosch Automotive Electrics and Automotive Electronics: Shaping the Future of Mobility

Bosch, a global leader in automotive technology, is at the forefront of shaping the future of mobility. With a rich history of innovation, the company is constantly pushing the boundaries of automotive electrification and electronics.



Bosch Automotive Electrics and Automotive Electronics: Systems and Components, Networking and Hybrid Drive (Bosch Professional Automotive Information) by Arne Nerjordet

★★★★☆ 4.5 out of 5

Language : English
File size : 60231 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 1272 pages

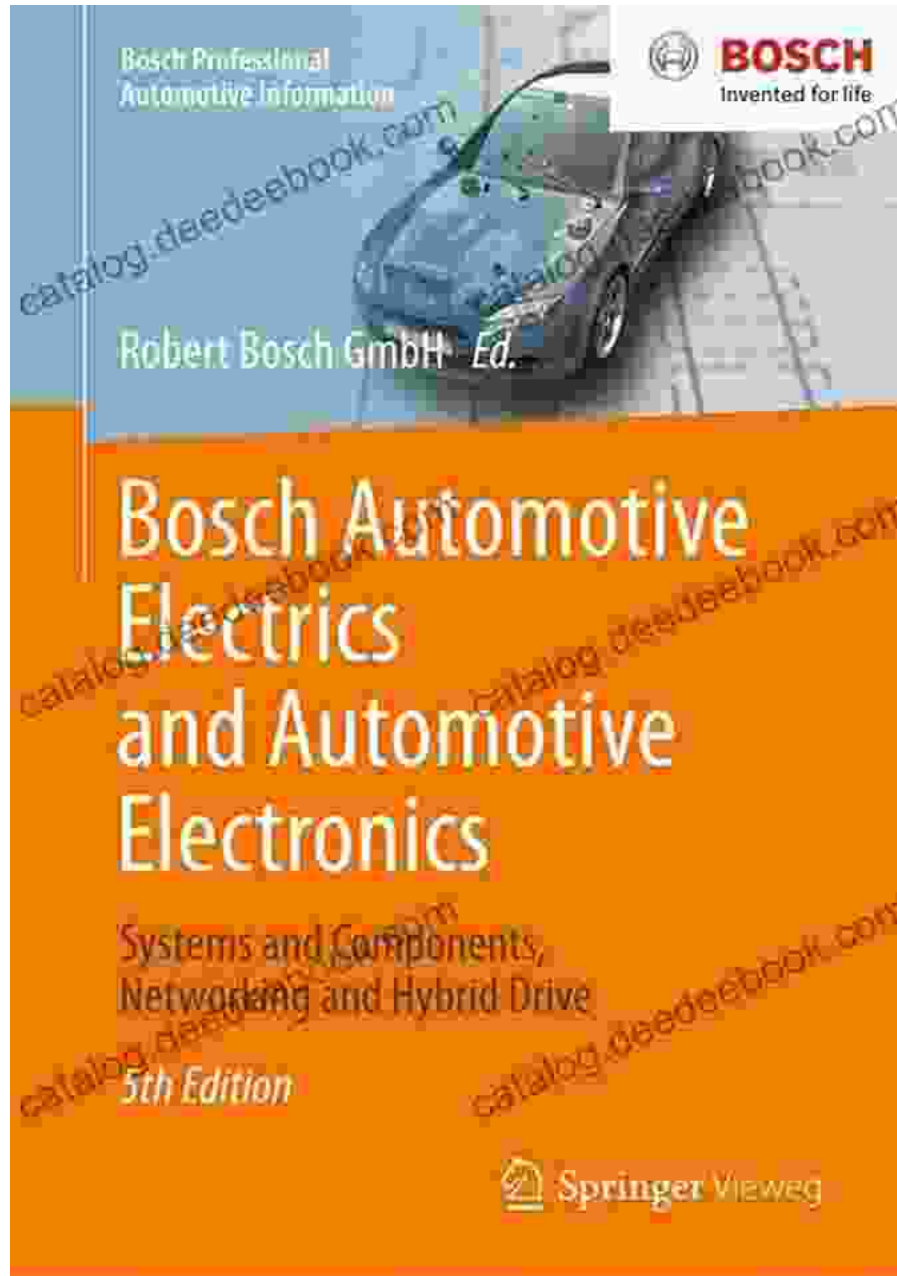


Bosch Automotive Electrics: Powering Sustainable Mobility

Bosch Automotive Electrics plays a pivotal role in the transition towards sustainable mobility. The company's focus on electric vehicle technology is evident in its wide range of solutions, including:

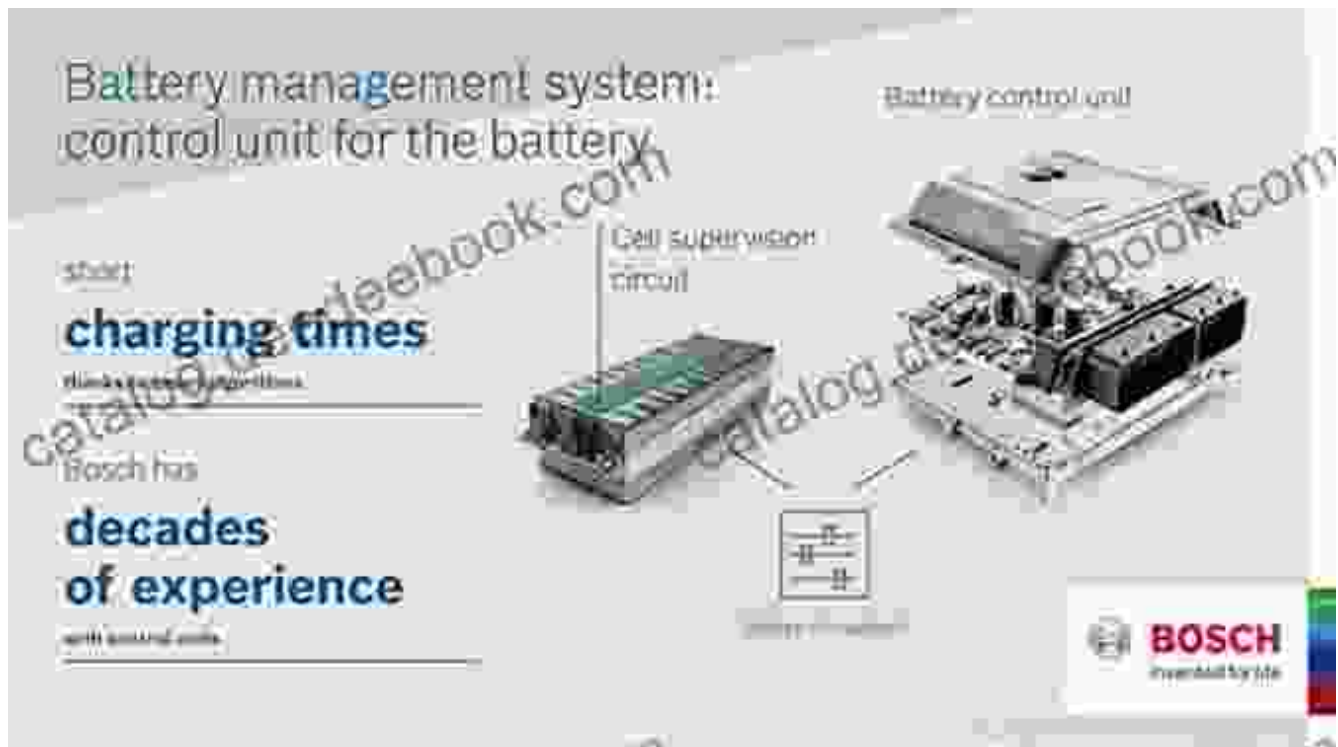
Electric Motors and Power Electronics

Bosch develops and manufactures highly efficient electric motors and power electronics for electric and hybrid vehicles. These components form the heart of electric propulsion systems, providing power and torque for smooth and responsive driving.



Battery Management Systems

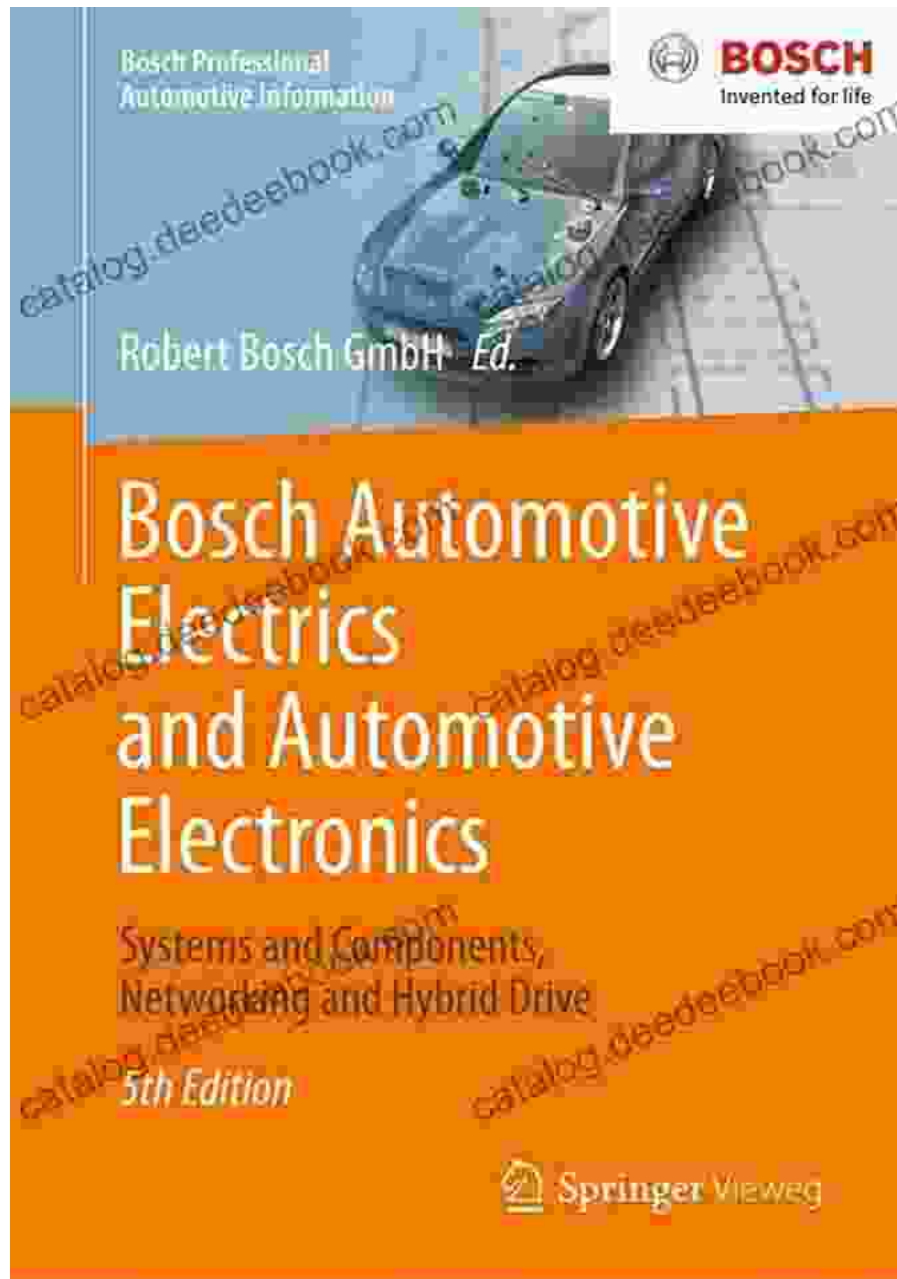
Bosch Battery Management Systems (BMS) optimize battery performance and safety in electric vehicles. They monitor battery cells, ensuring optimal charging, discharging, and temperature control to extend battery life and improve driving range.



Bosch Battery Management System for electric vehicles

Charging Infrastructure

Bosch offers a comprehensive suite of charging solutions for electric vehicles, including public charging stations, home charging units, and mobile charging apps. The company is committed to expanding charging infrastructure to support the growing adoption of electric vehicles.



Bosch Automotive Electronics: Advancing Driver Assistance and Safety

Bosch Automotive Electronics leverages cutting-edge electronic systems and sensors to enhance driver assistance and safety. These technologies are crucial for the development of automated and autonomous driving.

Advanced Driver Assistance Systems (ADAS)

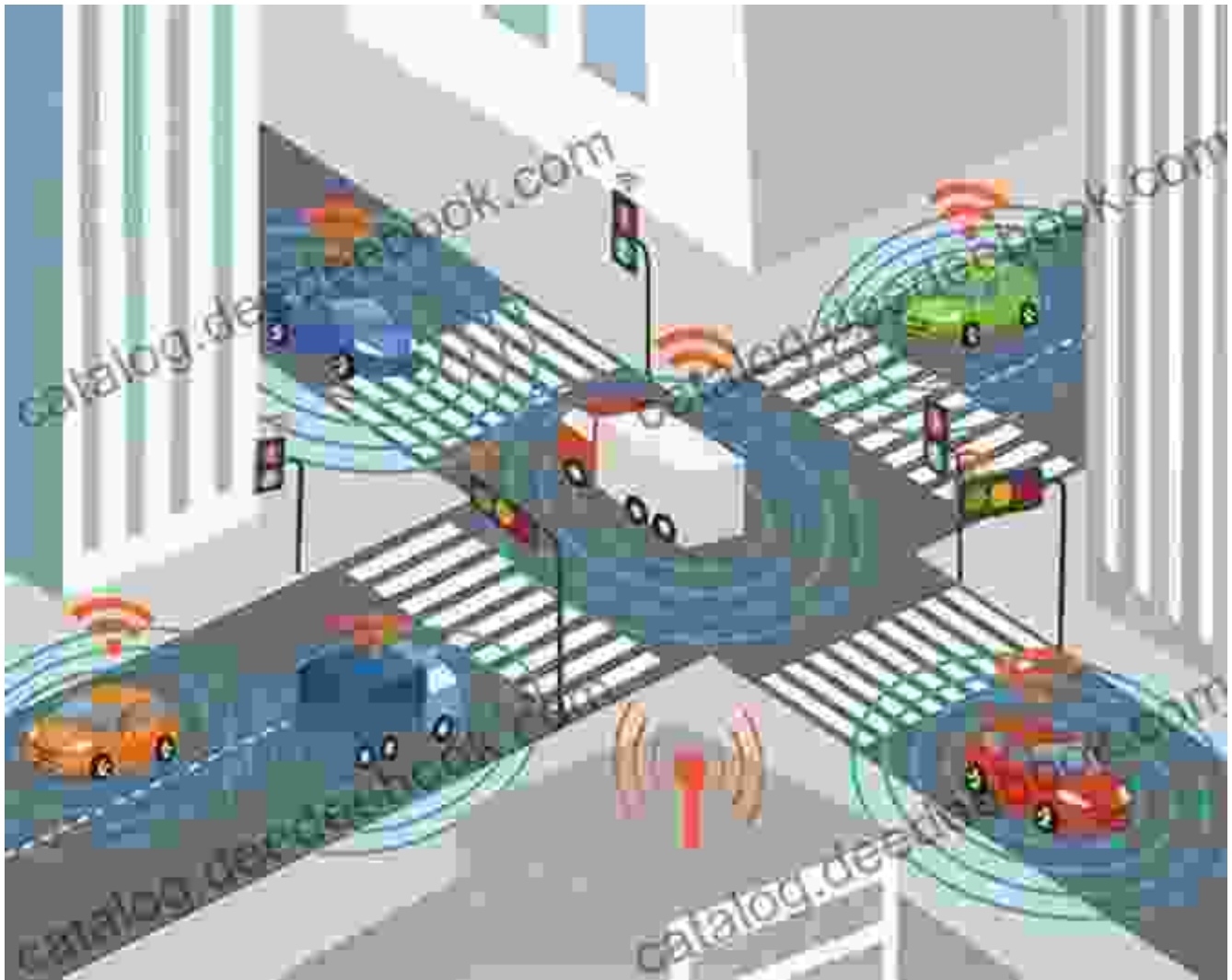
Bosch ADAS include features such as adaptive cruise control, lane keeping assist, and automatic emergency braking. These systems monitor surroundings, warn drivers of potential hazards, and intervene in critical situations to prevent accidents.



Bosch Advanced Driver Assistance System (ADAS)

Vehicle-to-Vehicle (V2V) Communication

Bosch V2V Communication systems enable vehicles to communicate with each other and with roadside infrastructure. This allows for real-time information exchange about road conditions, traffic events, and potential dangers, enhancing safety and traffic efficiency.



Sensor Technologies

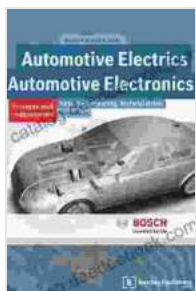
Bosch develops and produces a wide range of sensors for automotive electronics, including radar, lidar, ultrasonic, and camera systems. These sensors provide essential data for ADAS and automated driving applications, enabling vehicles to perceive their surroundings.



Bosch Sensor Technologies

Bosch eMobility: A Comprehensive Approach to Electrification

Bosch eMobility encompasses the company's entire range of electrification solutions, from electric motors and batteries to charging infrastructure and software. It offers automakers a single source for all their electric vehicle needs.



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