

# Power Electronics for Electric Vehicles and Energy Storage

Emerging Technologies and Developments

This text will help readers to gain knowledge about designing power electronic converters and their control for electric vehicles. It discusses the ways in which power from electric vehicle batteries is transferred to an electric motor, the technology used for charging electric vehicle batteries, and energy storage. The text covers case studies and real-life examples related to electric vehicles. The book

- Discusses the latest advances and developments in the field of electric vehicles
- Examines the challenges associated with the integration of renewable energy sources with electric vehicles
- Highlights basic understanding of the charging infrastructure for electric vehicles
- Covers concepts including the reliability of power converters in electric vehicles, and battery management systems.

This book discusses the challenges, emerging technologies, and recent development of power electronics for electric vehicles. It will serve as an ideal reference text for graduate students and academic researchers in the fields of electrical engineering, electronics and communication engineering, environmental engineering, automotive engineering, and computer science.

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