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Electric Vehicles and Distributed Generation - Microgrid

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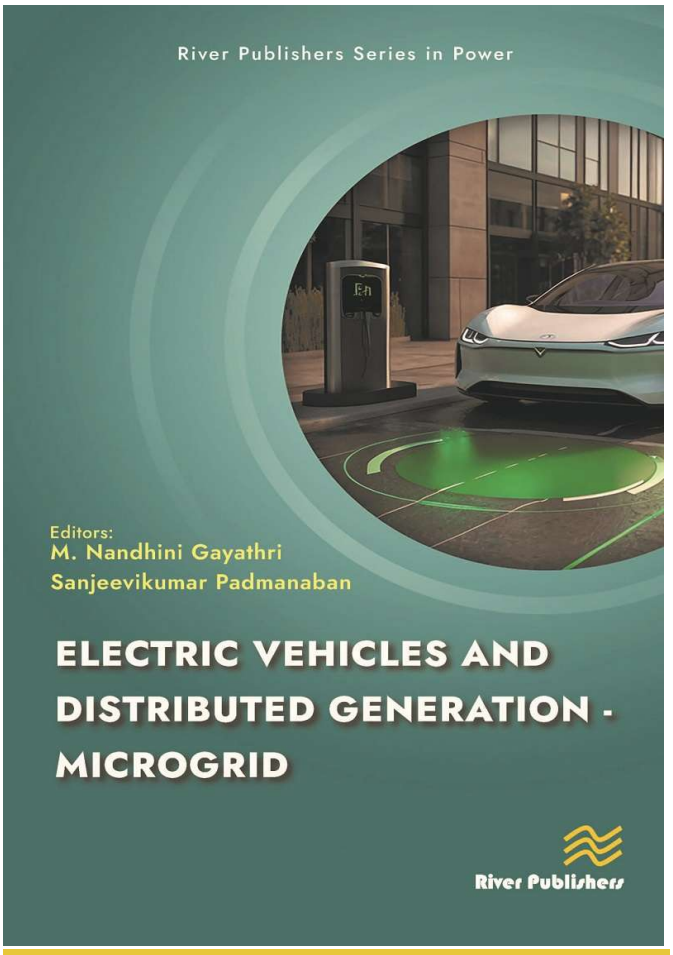

This book reviews advanced innovations and future perspectives for electric vehicle (EV) charging and distributed generation via micro grids. It includes clear points, diagrams, and technical details to aid researchers, scholars, and students in optimizing EV-grid integration.

In this book, the information, data, insights, facts, and knowledge provided will encourage and assist the scholars, researchers, authors, and students in learning the necessary technical specifications of electric vehicles integrated with the grid. This knowledge will also help readers understand the communication protocols used and analyze the optimization of vehicular power when the vehicle is integrated with the grid.

It will also help new research scholars by providing them with a complete knowledge regarding power converter topology, and power quality assessment in EV clusters. This book provides an excellent approach for both wired and wireless charging of electric vehicles and grid integration. It includes the most advanced contents in wireless charging of electric vehicles, power converters using wide bandgap devices and the integration of electric vehicles with the grid.

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