



Advanced DC-DC Converter Topology Design, Control, Application

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Message from the Guest Editors

This Special Issue aims to delve into the realm of advanced DC-DC converter topology design, control, modulation, and applications. It invites researchers to contribute their insights and findings on a wide range of topics, including, but not limited to, the following:

1. Novel material-based switching devices and components in DC-DC converters;
2. Advanced or low-cost fault-tolerant control techniques for DC-DC converters;
3. Reliability and security assessment of DC-DC converters;
4. Emerging applications and advanced topology of DC-DC converters;
5. High-efficiency and high-gain modulation and control techniques in DC-DC converters;
6. DC-DC converter-integrated power electronic system techniques.

Keywords

- DC-DC converters
- renewable energy
- power systems
- electric vehicles
- converter topologies
- system modulation
- control
- energy efficiency





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Message from the Editor-in-Chief

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