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Advanced DC/AC Inverters: Applications in Renewable Energy (Power Electronics, Electrical Engineering, Energy, and Nanotechnology)

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DC/AC inversion technology is of vital importance for industrial applications, including electrical vehicles and renewable energy systems, which require a large number of inverters. In recent years, inversion technology has developed rapidly, with new topologies improving the power factor and increasing power efficiency. Proposing many novel approaches, **Advanced DC/AC Inverters: Applications in Renewable Energy** describes advanced DC/AC inverters that can be used for renewable energy systems. The book introduces more than 100 topologies of advanced inverters originally developed by the authors, including more than 50 new circuits. It also discusses recently published cutting-edge topologies.

Novel PWM and Multilevel Inverters

The book first covers traditional pulse-width-modulation (PWM) inverters before moving on to new quasi-impedance source inverters and soft-switching PWM inverters. It then examines multilevel DC/AC inverters, which have overcome the drawbacks of PWM inverters and provide greater scope for industrial applications. The authors propose four novel multilevel inverters: laddered multilevel inverters, super-lift modulated inverters, switched-capacitor inverters, and switched-inductor inverters. With simple structures and fewer components, these inverters are well suited for renewable energy systems.

Get the Best Switching Angles for Any Multilevel Inverter

A key topic for multilevel inverters is the need to manage the switching angles to obtain the lowest total harmonic distortion (THD). The authors outline four methods for finding the best switching angles and use simulation waveforms to verify the design. The optimum switching angles for multilevel DC/AC inverters are also listed in tables for quick reference.

Application Examples of DC/AC Inverters in Renewable Energy Systems

Highlighting the importance of inverters in improving energy saving and power-supply quality, the final chapter of the book supplies design examples for applications in wind turbine and solar panel energy systems. Written by pioneers in advanced conversion and inversion technology, this book guides readers in designing more effective DC/AC inverters for use in renewable energy systems.

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