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This article provides a comprehensive review of Silicon Carbide (SiC) based inverters designed for High-Speed (HS) drive applications, which require higher outp

In this paper, the optimal design and implementation of a silicon-carbide (SiC) power semiconductor-based current source inverter ...

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The objective of this thesis is to present a design for a low parasitic inductance, high power density 3-phase inverter using silicon-carbide power modules for traction application in the ...

Discover the benefits of the CTI Silicon Carbide Inverter for electric vehicles, incorporating advanced hardware and software solutions.

Wolfspeed presents a new high-performance, low-cost, compact 3-phase inverter based on next generation power modules which are specifically optimized to fully utilize ...

The review analyzes approximately 70 recent three-phase SiC inverter designs, categorizing them by topology, specifically two-level, Neutral Point Clamped (NPC), T-type, ...

This paper presented the design of a three-phase inverter using some of the most advanced discrete Silicon Carbide devices on the market. A strong emphasis was placed on the design ...

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This dissertation presents control, analysis, and design of silicon carbide (SiC)-based critical conduction mode (CRM) high-frequency soft-switching three-phase ac-dc ...

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Abstract--The paper presents a silicon carbide (SiC) four-switch three-phase (FSTP) inverter as a low-cost, compact, and highly efficient alternative to traditional six-switch three-phase (SSTP) ...

In this paper, the optimal design and implementation of a silicon-carbide (SiC) power semiconductor-based current source inverter (CSI) with a power rating of 3 kW focusing ...

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