
The purpose of this study is to analyze the performances of the single-phase full-bridge inverter according to diferent switch structures and to propose a cost-efective structure that depends ...

A new topology of the high frequency alternating current (HFAC) inverter bridge arm is proposed which comprises a coupled inductor, a switching device and an active clamp ...

This paper explicates the operational principle of the proposed hybrid NPC-ANPC H-bridge inverter in detail. Subsequently, a loss model and thermal model are developed to ...

In this paper, a class of new HFAC inverter topologies are proposed for use of single-phase, three-phase, multi-phase, and multi-levels. A coupled inductor bridge arm is integrated in them ...

The invention relates to the technical field of electric pump controllers of aviation hydraulic systems, in particular to a single-phase bridge arm topological structure and an inverter...

To enhance the operation efficiency of single-phase full bridge inverter, a novel single-phase full bridge passive SiC-based soft-switching inverter topology is proposed.

A single-phase bridge inverter is defined as a type of DC-AC inverter that converts direct current (DC) into alternating current (AC) using a bridge configuration, typically employed in ...

Full-bridge inverters offer improved performance and are often used in many single-phase inverter applications, including motor drives, solar inverters, and UPS systems, despite having a larger ...

Inverter single-phase bridge arm structure. In this paper, a new sensorless control scheme with the injection of a high-frequency square-wave voltage of an interior permanent-magnet...

The main aim of this work is to demonstrate easy realisation of CHB inverter using ST Microelectronics ARM Cortex M4 microcontroller STM32F407VG. For rapid development of ...

Inverter single-phase bridge arm structure. In this paper, a new sensorless control scheme with the injection of a high-frequency square-wave ...

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