

Abstract: This study proposes a novel control strategy for a three-level active neutral-point clamped (3L-ANPC) inverter using selective harmonic elimination pulse width modulation (SHEPWM).

Consequently, this paper presents a modified Selective Harmonic Elimination Pulse Width Modulation (SHE-PWM) controlled three-phase 5-level Multi-level Inverter (MLI) topology. The ...

The amplitude of DC links in CHB topology is determined as a manner which lead to improve the quality of converter AC voltage waveform. This paper proposes a new scheme of SHE ...

Switching Angle Solutions Simulation Results Topologies Device Counts Comparison Comparison Between Conventional and Proposed Topology To ascertain the performance of the proposed topology, it is compared against the conventional three-phase cascaded H-bridge converter. Figures 14 and 15 shows the conventional 3-phase nine-level output waveform and its FFT plot respectively. From the FFT it can be seen that the conventional is not capable of eliminating the harmonics completely, but... See more on link.springer

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Simulation and experimental results are pre-sented for a double-cell series-connected voltage source PWM inverter in single-phase and three-phase configuration.

Combining the selected harmonic elimination PWM (SHEPWM) with the current harmonic minimum PWM (CHMPWM), the switching angles can not only eliminate the selected harmonic but also ...

This study presents a real-time Selective Harmonic Elimination PWM (SHE-PWM) algorithm using artificial neural networks, validated with the OP5600 RT LAB simulator.

In this proposed model, an IGBT based inverter is employed to regulate the speed of a Three Phase Induction Motor (TPIM). The effectiveness of the proposed system is evaluated in both closed and ...

This paper presents design and practical implementation of single-phase inverter based on selective harmonic elimination-pulse width modulation (SHE-PWM) technique, which results in wide range of ...

SHEPWM of 3 phase, 2 level inverter with 3, 5 and 7 switching angles per quarter cycle. This set of models



Shepwm controlled three-phase pwm inverter

and scripts demonstrate how SHEPWM works. The Simulink models generate ...

It presents non-traditional solutions to the problem of selective harmonic elimination (SHE) in three phase inverter (VSI)-fed induction motor drives. The aforementioned problem was solved ...

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