

This chapter examines the inverter's neutral point voltage with different loads, motor control of the Permanent Magnet Synchronous Motor (PMSM), and various inverter profiles.

This paper proposes a novel control approach for a dual three-level NPC inverter-fed six-phase induction motor topology, designed for low-voltage, high-power automotive applications.

In this paper, a new strategy for NPC three-level inverter in DC-link balancing control is proposed.

Overall, this study contributes to the advancement of neutral point voltage inverters in multilevel electric motor drives, offering valuable insights and practical solutions to optimize the performance of electric ...

Therefore, this paper investigates the impact of stationary and dynamic neutral point voltage deviations on the motor flux in electric machines and offers a compensatory strategy for these...

Neutral Point Clamped inverters are the preferred solution in high-performance industrial applications. They are widely used in high-power motor drives for controlling large machinery, such ...

We can realize more sophisticated multi-level inverters that can directly synthesize more intermediate levels in an output waveform, facilitating nice harmonic cancelled output content. Example: Neutral ...

A self-optimization mechanism of the three-phase switching sequence is proposed to achieve fully control of the neutral-point voltage with lowest switching times.

To meet the high-performance requirements of rail transit, this paper selects permanent magnet synchronous motors with high efficiency, high power density, and good servo performance, ...

However, neutral-point voltage fluctuation and common-mode voltage (CMV) can negatively affect the performance of the three-level T-type inverter. This study proposes a novel ...

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