

Title: Inverter DC voltage ripple

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This article presents a generalized approach toward the dc-link voltage switching ripple analysis in the two-level multiphase pulsewidth modulation (PWM) voltage source ...

Abstract The three-phase voltage source inverter (VSI) is de facto standard in power conversion systems. To realize high power ...

Abstract Inverter's performance and operating mode may be negatively affected by inverter input (dc-link) current and voltage ripple.

Dc-link voltage ripple is a direct manifestation of the harmonic currents absorbed by the dc-link capacitor. Existing research primarily analyses its peak-to-peak and RMS values.

Abstract: In this article, switching strategies for dc-link current and voltage ripple reduction have been studied. The considered topology is a neutral-point clamped three-level (NPC-3L) ...

Abstract--In this paper, a method is proposed to investigate the dc-link current and voltage ripple calculations in voltage source inverters by considering the reverse recovery of the antiparallel ...

Since a reliable design of the DC-link capacitor depends on an accurate estimation of its current ripple, this paper proposes analytical equations to model the influence of dead ...

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