

The proposed amplitude modulated triangular carrier PWM (AMTCPWM) method increases linear range of the SPWM, avoids the pulse dropping region and reaches to the square wave boundary. The ...

This paper presents a comprehensive comparison of two primary modulation techniques employed in three-phase inverters: Sinusoidal Pulse Width Modulation (SPWM) control and Space Vector Pulse ...

Summary This paper proposes a single-stage three-phase quasi-Z-source inverter with strong boost ability and three new kinds of simple boost modified space vector modulation (SVM) strategies. ...

The choice of modulation method directly impacts efficiency, harmonic distortion, and system reliability. This article explores popular modulation strategies, their real-world applications, and emerging ...

This work provides a comprehensive review of the major CMV mitigation/elimination solutions, with emphasis on preventive actions, in the form of inverter topology variants and/or ...

voltage-source-converter modulation techniques have been intensively researched. In principle, all modulation methods aim to lower harmonic distortion in the output voltage and current, improve dc ...

This paper presents a simplified hybrid modulation method for operating dual-active-bridge (DAB) converters that power inverters by integrating single-phase shift (SPS) and triple-phase shift ...

The modulation strategies are reviewed with particular regard to their comparative suitability for the modulation of MLIs for PV applications.

The cascaded H-bridge (CHB) inverters has drawn much attention in renewable energy and industrial applications. Conventional modulation strategies for CHB inverters face challenges in ...

This paper introduces a novel current-based Space Vector Discontinuous Pulse Width Modulation (SVDPWM) strategy, named OP1-SVDPWM, designed for Four-Level Neutral Point ...

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