***ABSTRACT ON***

***SIMULATION OF ACTIVE NEUTRAL-POINT CLAMPED (ANPC) MULTILEVEL INVERTER***

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***Abstract -***  This paper proposes an active neutral-point-clamped (ANPC) multilevel converter that combines the flexibility of the multilevel floating capacitor converter with the robustness of industrial NPC converters to generate multilevel voltages. Compared with traditional three-level neutral-point clamped converter, the recently proposed three-level active neutral-point-clamped (ANPC) converter can overcome the unequal loss distribution among semiconductor devices, and therefore result in increased output power or switching frequency. The proposed concept is described and supported by simulation results, and experimental validation demonstrates the proposed technology. The results are compared with a traditional pulse width modulation (PWM) approach.