

عنوان مقاله:

Analysis and design of Δ th order Π type voltage-fed load resonant converters with immittance property tailored for constant current applications

محل انتشار:

سومین کنفرانس ملی پژوهش های نوین در مهندسی و علوم کاربردی (سال: 1400)

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خلاصه مقاله:

Resonant LC tanks with immittance property can be a suitable candidate to achieve constant current output in load resonant converters (LRCs) topologically. In this work, Δ th order Π type LC tanks are investigated to accede this goal and design conditions are achieved. Finally, using a selected Π type tanks, a LRC is designed based on minimization of kVA/kW characteristic of the IPRTs. Designed circuit is a γ W constant current converter that has high robustness, .minimum reactive power and ZVS on the inverter's MOSFETs against load variation without using any feedback loop

کلمات کلیدی:

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