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Title: Three-phase inverter closed-loop control

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In this paper, a high gain DC-DC converter is implemented in order to convert the voltage obtained from solar cells to a high voltage at desirable limit and it will optimize low ...

The inverter modelling approach captures the closed-loop dynamics including the interaction between different components of the controller that is essential for linear time ...

The closed-loop control is designed for the case of a renewable energy source connected to the ac mains and its performance is analyzed through simulation and experiments.

strategy of the inverter must guarantee its output waveforms to be sinusoidal with fundamental harmonic. For this purpose, close loop current control strategies such as H₂ repetitive ...

An adoption of SiC device brings benefits on performances of three-phase photovoltaic (PV) inverters. As the switching loss of SiC devices is concentrated at a

In this study, two SSVPWM algorithms for three-level inverters using current closed-loop control were investigated. The main contributions of this paper are summarized as follows.

This paper innovatively uses script module programming of plc software to build the SVPWM modulation module which drive the three-phase inverter while realizing the closed ...

The inverter modelling approach captures the closed-loop dynamics including the interaction between different components of the ...

In this paper, a simple digital scheme for a closed-loop control is proposed for a three-phase inverter operating in TCM. A simple conduction-mode ...

Three phase off-grid inverter is driven using Sine PWM. The sine references are generated using a Harmonic oscillator. The closed loop control is implemented in synchronous ...

In this paper, a simple digital scheme for a closed-loop control is proposed for a three-phase inverter operating in TCM. A simple conduction-mode decision method is presented, based on ...

In the experiments, the inverter powered a simple RL load and an induction motor. For the closed-loop control of the induction motor, a speed control algorithm provided command inputs to the ...

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