

Title: Single-phase inverter fractional-order control

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The simulation results show that the fractional-order control system can reduce the total harmonic distortion (THD) of the grid ...

The novelty of the method presented in this paper is designing a robust Fractional-order PID controller for H-bridge single-phase inverter, which has benefited from the online ...

In this paper, the fractional order controller is applied in the control of PV grid-connected inverter, since the fractional order PI ? controller has a larger adjustment range ? than the integer-order ...

This paper presents a hybrid controller based on fractional order control (FOC) with finite control set model predictive control (FCS-MPC) for LCL grid-tied sin

Aiming at the problem of harmonic suppression performance degradation, a fractional-order MRC (FOMRC) based on the farrow structure fractional delay (FD) filter is ...

In this work, a novel Monte Carlo Artificial Bee Colony (ABC) optimized fractional-order PI controllers have been used to develop a single inverter to operate optimally on both ...

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