SolarCabinet Energy

Auto-disturbance rejection control of single-phase inverter

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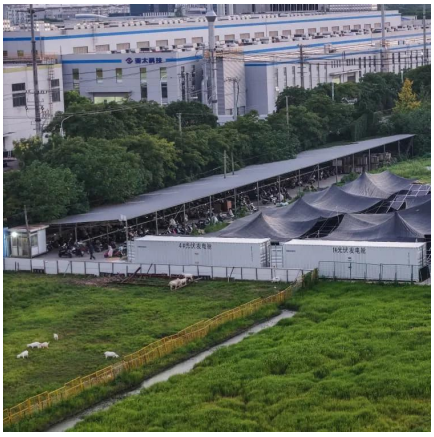
[An Active Disturbance Rejection Control-Based Voltage Control ...]

With regard to this, this article proposes a voltage control strategy based on the active disturbance rejection control (ADRC) for single-phase cascaded H-bridge rectifiers, aiming at achieving ...

[Active disturbance rejection control of single phase grid ...]

This paper takes the single phase grid-connected inverter as the research object, and designs the double closed-loop control system based on active-disturbance-rejection control (ADRC).



[ACTIVE Disturbance Rejection Control of LCL Grid-Connected Inverter]

This paper presents an enhanced control strategy for grid-connected inverter systems using LCL type filters. This strategy integrates a prefilter, full state feedback active damping and a ...

[Advanced Control Method for Photovoltaic Inverter Experiment System]

Then, to assure a good immunity to noise and model uncertainty, the output current control method is chosen to be an auto-disturbance

rejection control. The output current of PV inverter ...

[Research on the control strategy of LCL grid-connected ...]

To improve the anti-interference performance and reduce the output current harmonic content of the grid-connected inverter, an improved control strategy that combined repetitive control (RC) ...

[Active Disturbance Rejection Control Strategy for Grid-Connected]

In order to solve the problem of insufficient control performance of various traditional control strategies in the complex environment of grid-connected inverters, the active ...

Performance analysis of PR current controller for single-phase inverters

The performance analysis of a proportional-resonant (PR) controller for single-phase inverter is presented in this paper. One of the most important issues in inverter control is the load current ...

[Application of Improved Linear Active Disturbance Rejection ...]

Addressing the issues of uncertainties and disturbances in LCL-type grid-connected converters, a current control strategy for single-phase LCL grid-connected inverters based on linear active ...

[Research on the control strategy of LCL grid-connected inverters ...]

To improve the anti-interference performance and reduce the output current harmonic content of the grid-connected inverter, an improved control strategy that combined repetitive control (RC) ...

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