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Title: Auto-disturbance rejection for NASA solar power generation

Generated on: 2026-04-21 02:09:00

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Abstract: The powerful control ability of the active disturbance rejection control (ADRC) method has attracted much attention from both the academic and industrial communities.

o A mathematical model of an integrated solar combined cycle system is constructed. o An active disturbance rejection control method for the integrated solar combined cycle system is ...

In this review, we present a deep insight on the fundamentals of active disturbance rejection control, including the manner of disturbance compensation and the way to construct ...

1 Introduction a new nonlinear controller with-out depending on the model of the plant. Due to its simplicity, strong robustness and disturbance rejection, it has been successfully applied to many ...

To solve this problem, this paper designs a maximum power point tracking system based on booster circuit, and adopts fuzzy auto-disturbance rejection control to ...

This disturbance rejection feature allows users to treat the considered system with a simpler model insofar as the negative effects of modeling uncertainty are compensated in real time.

This paper investigates the modeling and controller design of a micro gas turbine in power generation scenario.

This paper proposed a new method for maximum power point tracking in photovoltaic power generation systems by combining super-twisting sliding mode control and active disturbance rejection method.

To this end, a CPG scheme based on the error-based active disturbance rejection control (EADRC) approach and the perturb & observe method is proposed to obtain faster dynamic performance and ...

To solve this problem, this paper designs a maximum power point tracking system based on booster circuit, and adopts fuzzy auto-disturbance rejection control to improve the conductance increment ...

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