

عنوان مقاله:

Hierarchical Sliding Mode Control of Paralleling Single-phase UPS Inverters

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نویسندگان:

Sh. Darvishzadeh - *Iran University of Science and Technology*

A. Rahmati - *Iran University of Science and Technology*

A. Abrishamifar - *Iran University of Science and Technology*

خلاصه مقاله:

In this paper a novel control method for parallel UPS inverters has been proposed. UPS units paralleling reduces cost of installation and increases reliability of system. This new method is based on sliding mode control and has the benefits of sliding mode control such as robustness against disturbances and fast response. We use hierarchical model of sliding mode control for parallel inverters control. The performance of this method has been investigated through simulation and comparison with common methods of parallel inverters control. Simulation was done for two parallel inverters. Simulation results certified the sliding mode control possibility for parallel inverters control

کلمات کلیدی:

;Load sharing; Parallel inverters; Hierarchical sliding mode control; Sliding surface

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