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Robust Control for Grid Voltage Stability: High ...
When in grid connected mode, the grid frequency and bus voltage will be dictated by the main grid, and the microgrid will follow the command from the main grid to offer the desired power supply. One of the fundamental control problems for the microgrid is the power sharing problem which aims to allocate the total power demand to all the DGs in a proper way such that the microgrid can work safely and efficiently.

A unified distributed robust control framework for power ...
A Robust Control Scheme for Grid-Connected Voltage-Source Inverters. Abstract:This paper analyzes the stability problem of the grid-connected voltage-source inverter (VSI) with LCfilters, which demonstrates that the possible grid-impedance variations have a significant influence on the system stability when conventional proportional-integrator (PI) controller is used for grid current control.

A Robust Control Scheme for Grid-Connected Voltage-Source

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LPV control enables robust stabilization of power systems in case of grid faults or fluctuations of wind speed. • The unified synthesis of power grid controllers for rotor angle stability and voltage stability is possible. • The decentralized control schemes is applicable to power grids of variable size.

Robust control for voltage and transient stability of ...

Abstract: The grid voltage, especially under unbalanced and harmonically distorted grid conditions, often distorts the injected currents of grid-connected inverters. To address this problem, a robust control scheme of grid-connected inverters is presented in this paper. The proposed scheme is achieved by an internal model (IM)-based current controller and a robust phase-locked loop (PLL) scheme.

Robust Control Scheme for Three-Phase Grid-Connected ...

A robust control scheme with low-voltage ride-through ability is presented for grid-connected photovoltaic converters that operate under harsh conditions such as voltage sags and unknown disturbances and parameters.

A robust control scheme for grid-connected photovoltaic ...

In this chapter, the Lyapunov-based robust control is used to generate voltage references as an input to PWM. The control law satisfies the previous conditions is presented in the following form: $V_r = V_{r,eq} + V_{r,n}$ where V_r is the control vector, $V_{r,eq}$ is the equivalent control vector, $V_{r,n}$ is the switching part of the control law.

Dual Robust Control of Grid-Connected DFIGs-Based Wind ...
energies Article Robust Control Method for DC Microgrids
and Energy Routers to Improve Voltage Stability in Energy

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Robust Control Method for DC Microgrids and Energy Routers ...

This work presents a linear state-feedback controller using a backstepping design approach for output voltage regulation of voltage-sourced converters feeding to customers' loads in a stand-alone AC microgrid system. Irrespective of load type and its variations, parameter uncertainties, and other disturbances, the controller is robust enough to achieve a regulated voltage magnitude within the prescribed bounds and exact frequency tracking.

IET Digital Library: Robust backstepping output voltage ... title = "A robust control scheme for grid-connected voltage-source inverters", abstract = "This paper analyzes the stability problem of the grid-connected voltage-source inverter (VSI) with LC filters, which demonstrates that the possible grid-impedance variations have a significant influence on the system stability when conventional proportional-integrator (PI) controller is used for grid current control.

A robust control scheme for grid-connected voltage-source ... In this paper, a robust blended integral linear-quadratic-Gaussian (ILQG) controller is proposed for damping and tracking control of SN voltage of a PV based hybrid source of AC-DC microgrid against a number of operating conditions. The structure of this mixed controller is made by expanding

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the SN dynamics with the utilization of an integrator.

Renewable Power Generation Resources

Frontiers | A Robust Control Method for Damping and ...

The adopted control structure in [22] is based on linear robust method and contains an inner control loop that estimates uncertainties and disturbances, and an outer control loop that tracks the desired control trajectory. An optimal control has been used in [23] to voltage control of a DCDG, which is robust with respect to load uncertainties.

Robust control of a multi-bus DC microgrid based on ...

Merabet, L. Labib, A. M. Ghias, C. Ghenai, and T. Salameh,

“ Robust Feedback Linearizing Control with Sliding Mode Compensation for a Grid-Connected Photovoltaic Inverter System under Unbalanced Grid Voltages, ” IEEE Journal of Photovoltaics, vol. 7, no. 3, pp. 828–838, 2017.

A PLL-Free Robust Control Strategy With Application For ...

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