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Abstract: This paper proposes a decentralized method for nonlinear

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control of oscillatory dynamics in power systems. The method is applicable for ensuring both transient stability and small-signal stability. The method uses an optimal control law, which has been derived in the general framework of nonlinear control using normal forms.

Decentralized Nonlinear Control for

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Power Systems Using ...

electrical power systems using two nonlinear control synthesis techniques. For this transient stabilization problem the actuator considered is a power electronic device, a controllable series capacitor (CSC). The power system is described using two different nonlinear models - the second order swing

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equation and the third order flux-decay model.

Nonlinear Control Synthesis for Electrical Power Systems ...

Nonlinear control systems such as Nonlinear Model Predictive Control (NMPC) have been the subject of an interest in process control design

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(Camacho and Bordons, 2007) and have been applied in numerous industrial scale process (Lopez-Negrete et al., 2013).

Nonlinear Control Systems - an overview | ScienceDirect Topics

Nonlinear control theory is the area of control theory which deals with systems

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that are nonlinear, time-variant, or both. Control theory is an interdisciplinary branch of engineering and mathematics that is concerned with the behavior of dynamical systems with inputs, and how to modify the output by changes in the input using feedback, feedforward, or signal filtering.

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Nonlinear control - Wikipedia

Modeling and state-space formulation of nonlinear systems; Module-4. Second-order systems; Module-5. Periodic Solutions; Module-6. Stability Analysis; Module-7. Nonlinear control design; Web Content

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Nonlinear Control System

The major contributions of nonlinear control in power systems is to; regulate frequency and voltage, adequately damp the oscillations and preserve synchronisation in the presence of disturbances. Relevant techniques with eminent recent advances include; Nonlinear PI [62], Optimal Control [63

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], MPC [64], Passivity-based control [65], SMC [66] and Observer-based SMC [67].

Nonlinear control systems - A brief overview of historical ...

The power electronic interface between a satellite electrical power system (EPS) with a photovoltaic main source and

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battery storage as the secondary power source is modelled based on the state space averaging method. Subsequently, sliding mode controller is designed for maximum power point tracking of the PV array and load voltage regulation. Asymptotic stability is ensured as well ...

Nonlinear Control of a Satellite

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The describing function is an approximate procedure for analyzing certain nonlinear control problems in control engineering. To start, let us first recall the basic definition of a linear control system. Linear control systems are those where the principle of superposition (if the two inputs are

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applied simultaneously, then the output will be the sum of two outputs) is applicable.

Describing Function: Analysis of Nonlinear Systems ...

Classical Feedback Control with Nonlinear Multi-Loop Systems: With MATLAB® and Simulink®, Third Edition

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(Automation and Control Engineering) by Boris J. Lurie and Paul Enright | Aug 21, 2019 4.0 out of 5 stars 1

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Nonlinear Control System Extinction

Angle Converter Station These keywords were added by machine and not by the

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authors. This process is experimental and the keywords may be updated as the learning algorithm improves.

Nonlinear Control of HVDC Systems | SpringerLink

The applicability of the scheme has been shown on a simple model LTI system. Nonlinear control theories which are

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used for power systems have also been briefly discussed, with the focus on normal form-based nonlinear control. Most important definitions and results of normal form-based control have been discussed.

Dynamic Estimation and Control of Power Systems ...

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Nonlinear control laws have been implemented for sophisticated flight control systems on board helicopters, and vertical take off and landing aircraft; adaptive, nonlinear control laws have been implemented for robot manipulators operating either singly, or in cooperation on a multi-fingered robot hand; adaptive control laws have been

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implemented for jet engines and automotive fuel injection systems...

Nonlinear Systems - Analysis, Stability, and Control | S.S ...

Fr Arezki is working in the area of power systems, power converters, power electronics and control systems. His research interests include the

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application of modern control methods (Fuzzy, neurone Petri nets...) to AC/DC converters and Multicellular chopper. Fields of interests. Control Systems. Power Converters Power Electronics

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