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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

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Nonlinearities in process variables can be caused by stiction in control valves, which, in turn, sets up oscillations that propagate throughout the whole plant.

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control theory which deals with systems 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

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in the input using feedback, feedforward, or signal filtering. The system to be controlled is called the "plant". One way to make the output of a system follow a desired reference signal is

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Abstract. In the previous chapter, the control design principle and algorithm for SISO affine nonlinear systems are elaborated. This type of systems has only one input, i.e. control variable u

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and one output $y(t)$. As we know, however, multi-machine power systems are large nonlinear ones with multiple inputs and multiple outputs (MIMO).

Design Principles of Multi-Input Multi-Output Nonlinear ...

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Optimal approaches are discussed in Chapter 8 with retarded control of nonlinear system in singular situation, and Chapter 9 extends optimal theory to H-infinity control for a nonlinear control system. Chapters 10 and 11 present the control of nonlinear dynamic systems, twin-rotor

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helicopter system 3D crane system,

which are both underactuated, cascaded dynamic systems.

Nonlinear Systems - Design, Analysis, Estimation and ...

The presented control strategy results in a multi-loop, nonlinear controller

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which is conceived to meet two control objectives: (i) speed reference optimization, in order to extract maximum wind energy despite the uncertainty and variations wind speed, and mechanical parameters; (ii) Power Factor Correction (PFC) to avoid net harmonic pollution.

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Thus, nonlinear PID control applied to wind turbines can be found in [7], [8] and [9] as well as fractional-order PID (FOPID) applied to the control of a permanent magnet synchro-generator

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