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*Nonlinear Control Systems and Power System Dynamics
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Nonlinear Control Systems and Power System Dynamics presents a comprehensive description of nonlinear control of electric power systems using nonlinear control theory, which is developed by the differential geometric approach and nonlinear robust control method. This book explains in detail the concepts, theorems and algorithms in nonlinear control theory, illustrated by step-by-step examples.

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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 using two different nonlinear models - the second order swing equation and the third order flux-decay model.

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Nonlinear systems are defined by those, which do not follow the principle of superposition. 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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Nonlinear System - an overview | ScienceDirect Topics

An adaptive system for linear systems with unknown parameters is a nonlinear system. The analysis of such adaptive systems requires similar techniques to analyse nonlinear systems. Therefore it is natural to treat adaptive control as a part of nonlinear control systems. Nonlinear and Adaptive Control Systems treats nonlinear control and adaptive control in a unified framework, presenting the ...

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Nonlinear control theory is the area of 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 in the input using feedback, feedforward, or signal filtering. The system to be controlled is called the

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"plant". One way to make the output of a system follow a desired reference signal is

Nonlinear control - Wikipedia

Nonlinear Dynamical Systems and Control: A Lyapunov-Based Approach. by Wassim M. Haddad and Vijaya Sekhar Chellaboina | Feb 17, 2008. 3.3 out of 5 stars 3. Hardcover \$85.14 \$ 85. 14 to rent \$122.08 to buy. \$3.99 shipping. Only 9 left in stock - order soon. More ...

Amazon.com: Nonlinear Control

The control scheme is implemented in the form of a novel nonlinear controller based on a dynamic model of the robot system. This creates a general system where a practical

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application has been achieved through a controller grounded
in theoretical mathematics.

Nonlinear Control in Robotics - Bristol Robotics Laboratory

A survey of nonlinear system identification algorithms and related topics is presented by extracting significant results from the literature and presenting these in an organised and systematic way. Algorithms based on the functional expansions of Wiener and Volterra, the identification of block-oriented and bilinear systems, the selection of input signals, structure detection, parameter ...

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Abstract. In the previous chapter, the control design principle

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and algorithm for SISO affine nonlinear systems are elaborated. This type of systems has only one input, i.e. control variable u 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 ...

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 helicopter and 3D crane system, which are both underactuated, cascaded dynamic systems.

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

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

Backstepping Control of Nonlinear Dynamical Systems ...

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

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Hydraulic Actuated Automotive Cooling Systems - Nonlinear

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Nonlinear Control Systems and Power System Dynamics functions as a text for advanced level classes and is a superb reference for scientists and engineers that are interested in

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the use of modern nonlinear control theory to practical
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