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A Novel Terminal Sliding Mode

A novel guidance law using fast terminal sliding mode control with impact angle constraints 1. Introduction. With the rapid development of missile technology in modern warfare, anti-aircraft missile, one of the... 2. Modeling of missile interception with impact angle constraints. A three dimension ...

A novel guidance law using fast terminal sliding mode ...

This paper proposes a novel nonsingular terminal sliding mode control combined with global sliding surface for a class of uncertain nonlinear second-order systems. The suggested control approach is developed based on the Lyapunov theory. The sliding mode reaching the sliding surface in finite time can be guaranteed.

A novel nonsingular terminal sliding mode control combined ...

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(PDF) A Novel Fast Terminal Sliding Mode Tracking Control ...

A Novel Global Fast Terminal Sliding Mode Control Scheme for Second-Order Systems Abstract: To speed up the response and reduce the chattering of a sliding mode control system, a novel reaching law with two variable power terms is proposed, which makes the system have a fast approaching rate either far away from or close to the sliding surface.

A Novel Global Fast Terminal Sliding Mode Control Scheme ...

To overcome this problem, a terminal sliding mode controller (TSMC) based on a novel exponential reaching law (NERL) method with a high-order terminal sliding mode observer (HOTSMO) is suggested. First, the TSMC based on NERL is adopted to improve system performance.

Terminal Sliding Mode Control with a Novel Reaching Law ...

For this reason, the nonsingular terminal sliding mode (NTSM) control method and the adaptive technique have been considered in this paper to develop a novel adaptive NTSM control method, which can be used to search the minimal value of the control gain automatically in the presence of the external disturbances.

A novel adaptive nonsingular terminal sliding mode ...

A novel guidance law using integral terminal sliding mode with impact angle constraint. Abstract: The terminal guidance problem for missiles intercepting maneuvering targets with terminal impact angle constraints is investigated. A finite-time impact angle constraint guidance law is developed using the nonsingular integral terminal sliding mode control theory.

A novel guidance law using integral terminal sliding mode ...

A novel impact angle constrained integrated guidance and control (IGC) scheme is proposed with non-singular terminal sliding mode control (NTSMC) technique for missile to intercept a maneuverable target.

A novel non-singular terminal sliding mode control-based ...

This chapter deals with the modeling and the control of a Quadrotor type of Unmanned Aerial Vehicles (UAVs) using a Terminal Sliding Mode Control (TSMC) approach. The objectives of this proposed...

Terminal Sliding Mode Controller Design for a Quadrotor ...

A nonlinear terminal sliding mode controller is designed to guarantee finite-time high-precision convergence of the sliding surface and meanwhile to eliminate the effect of singularity. Moreover, an exponential approach law is used to accelerate the convergence rate of the system to the sliding surface.

Novel Fuzzy Neural Nonsingular Terminal Sliding Mode ...

Terminalslidingmode#MATLAB#Slidingmodecontrol

Terminal Sliding Mode Control - YouTube

In, a new nonsingular terminal sliding mode (NTSM) surface has been introduced to eliminate singularity within the finite time. An adaptive nonsingular terminal sliding mode control also has been presented for an attitude tracking of spacecraft with actuator faults to avoid singularity.

Nonsingular Fast Terminal Adaptive Neuro-sliding Mode ...

Terminal sliding mode control theory and Application (Chinese Edition) [Zhang Niao Na] on Amazon.com. *FREE* shipping on qualifying offers. Terminal sliding mode control theory and Application (Chinese Edition)

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Sliding mode control forces the system trajectories into this subspace and then holds them there so that they slide along it. This reduced-order subspace is referred to as a sliding (hyper)surface, and when closed-loop feedback forces trajectories to slide along it, it is referred to as a sliding mode of the closed-loop

Sliding mode control - Wikipedia

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Adaptive Terminal Sliding Mode Control For Nonlinear

A nonsingular terminal sliding surface is used to achieve fast and finite-time convergence for the trajectory tracking, and also to avoid the singularity phenomenon in traditional terminal sliding mode design.

Adaptive Terminal Sliding Mode Control for Motion Tracking ...

Special emphasis has been given to papers that offer practical solutions, and which examine design and modeling involving new types of sliding mode control such as higher order sliding mode control, terminal sliding mode control, super-twisting sliding mode control, and integral sliding mode control. This book serves as a unique reference guide ...

Applications of Sliding Mode Control in Science and ...

Sliding mode control theory seeks to produce controllers to over some such mismatches. This text provides the reader with a grounding in sliding mode control and is appropriate for the graduate with a basic knowledge of classical control theory and some knowledge of state-space methods.

Sliding Mode Control Theory And Applications | Download ...

Aiming at the problem of missile attacking ground target in pitch plane, combined with a composite fast nonsingular terminal sliding mode, a new adaptive finite-time stable guidance law with attack... A novel adaptive second-order nonsingular terminal sliding mode guidance law design - Shuai Xu, Min Gao, Dan Fang, Yi Wang, Baochen Li,

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