

*Distributed Order Dynamic Systems Stability Simulation
Applications And Perspectives*



Distributed Order Dynamic Systems Stability

Shows the reader original results in stability analysis of linear time-invariant systems connected with distributed-order dynamic systems ; Provides the reader with a general approach to the use of distributed-order operators for use in a number of scientific and engineering disciplines

Distributed-Order Dynamic Systems - Stability, Simulation ...

We focus on the stability analysis of distributed-order linear time-invariant system, distributed-order signal processing and the numerical solution to discretization of distributed-order derivatives and integrals, and the numerical solution of ordinary and partial differential equations of distributed order.

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Distributed-Order Dynamic Systems eBook by Zhuang Jiao ...

Abstract: Bounded-input bounded-output stability condition of linear time invariant (LTI) distributed-order system over integral interval $(0, 1)$ has been established for the first time. Two cases about weighting function of the distributed order are investigated, and sufficient and necessary conditions of stability for these two types of distributed-order systems are derived.

Stability condition of linear time-invariant distributed ...

Stability issues are addressed with graphical and numerical results highlighting the fundamental differences between constant-, integer-, and distributed-order treatments. The power of the distributed-order model is demonstrated with work on the stability of noncommensurate-order linear time-invariant systems.

Distributed-Order Dynamic Systems | SpringerLink

Introduction --Distributed-order Linear Time-invariant System (DOLTIS) and Its Stability Analysis --Noncommensurate Constant Orders as Special Cases of Doltis --Distributed-order Filtering and Distributed-order Optimal Damping --Numerical Solution of Differential Equations of Distributed Order --Future Topics --Appendix: MATLAB® Codes.

Distributed-Order Dynamic Systems : Stability, Simulation ...

Distributed-Order Dynamic Systems: Stability, Simulation, Applications and Perspectives (SpringerBriefs in Electrical and Computer Engineering: Control, Automation and Robotics) [Zhuang Jiao, YangQuan Chen, Igor Podlubny] on Amazon.com. *FREE* shipping on qualifying offers. Distributed-order differential equations, a generalization of fractional calculus, are of increasing importance in many ...

Distributed-Order Dynamic Systems: Stability, Simulation ...

The Lyapunov direct method is extended to be used for this stability analysis. To this end, at first, a discretisation scheme with convergence property is introduced for distributed-order dynamic systems. Then, on the basis of this tool, Lyapunov theorems are proved for asymptotic stability analysis of equilibrium points in distributed-order ...

Stability analysis of distributed-order nonlinear dynamic ...

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We focus on the stability analysis of distributed-order linear time-invariant system, distributed-order signal processing and the numerical solution to discretization of distributed-order derivatives and integrals, and the numerical solution of ordinary and partial differential equations of distributed order.

Distributed-Order Dynamic Systems: Stability, Simulation ...

cerning the stability analysis problems for distributed-order systems. Therefore motivated by the previous references, this paper addresses some basic issues for distributed-order systems, e.g., bounded-input and bounded-output stability, time-domain response in the context of distributed-order systems. This paper is organized as follows.

Stability condition of linear time-invariant distributed ...

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