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Instability of Continuous Systems - Symposium Herrenalb ...

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Instability of Continuous Systems : Symposium Herrenalb ...

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Instability of continuous systems; Symposium Herrenalb ...

Efforts were made to adapt such methods, already known and developed
in the stability theory of rigid systems, for application in the
stability theory of continuous systems. During the last ten years
interest was focused mainly on the application of a generalized
Liapunov method to stability problems of continuous systems.

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Herrenalb 1969). XII+422 S. m. 147 Fig. Berlin/Heidelberg/New York
1971. Springer-Verlag.

Ed. H. Leipholz, Instability of Continuous Systems. (IUTAM ...

In 1969 scientists came together for the first time to discuss
problems of instability of continuous systems on a IUTAM - Symposium.
Since then twelve years of a fast and interesting development in the
field of stability have passed. Therefore it was necessary to arrange
a meeting for scientists

Stability in the Mechanics of Continua - 2nd Symposium ...

The International Symposium on Vibrations of Continuous Systems
(ISVCS) is a forum for leading researchers from across the globe to
meet with their colleagues and to present both old and new ideas in
the field. Each participant has been encouraged either to present
results of recent research or to reflect on

10th International Symposium on Vibrations of Continuous ...

Finite-time stability is defined for equilibria of continuous but non-
Lipschitzian autonomous systems. Continuity, Lipschitz continuity, and
Hölder continuity of the settling-time function are studied and
illustrated with several examples.

Finite-Time Stability of Continuous Autonomous Systems ...

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COMMENTARY Control Systems Engineering in Continuous Pharmaceutical Manufacturing May 20-21, 2014 Continuous Manufacturing Symposium ALLAN S. MYERSON,¹ MARKUS KRUMME,² MOHEB NASR,³ HAYDEN THOMAS,⁴ RICHARD D. BRAATZ¹ ¹Massachusetts Institute of Technology, Cambridge, Massachusetts 02139 ²Novartis Pharma AG, Basel 4056, Switzerland ³GlaxoSmithKline PLC, Collegeville, Pennsylvania 19426

Control Systems Engineering in Continuous Pharmaceutical ...

The concentric shell model is used to investigate numerically the stability of spherical steady-state stellar systems. Polytropic models with an isotropic velocity distribution are found to be stable almost down to the limiting index $n = 1/2$. 'Generalized polytropes', with a distribution function depending on energy and angular momentum, show instability when n is low and the velocity ...

Numerical Experiments on the Stability of Spherical ...

Abstract. Strainsoftening (unstable) flexural behavior (Fig.1a) has been observed in triangulated steel frames, reinforced concrete and composite beams and joints in precast concrete constructions; its strong implications in the overall structural response have been emphasized, and a systematic study often advocated but so far only begun (cf. [1-7]).

On Structural Instability Due to Strainsoftening ...

Key words. stability, nite-time stability, non-Lipschitzian dynamics
AMS subject classifications. 34D99, 93D99 PII. S0363012997321358 1.
Introduction. The object of this paper is to provide a rigorous foundation for the theory of nite-time stability of continuous autonomous systems and motivate

FINITE-TIME STABILITY OF CONTINUOUS AUTONOMOUS SYSTEMS

In this paper we propose a mechanisable technique for asymptotic stability analysis of continuous dynamical systems. We start from linearizing a continuous dynamical system, solving the Lyapunov matrix equation and then check whether the solution is positive definite.

Algebraic analysis on asymptotic stability of continuous ...

1. Introduction. Time delays often occur in many practical systems such as chemical or industrial process control and networked control systems, which can result in deterioration of system performance or even instability (Gu et al., 2003, Kao and Lincoln, 2004, Krstic, 2010, Mazenc et al., 2017, Richard, 2003). In the past few decades, the problem of stability analysis of linear systems with ...

Stability of linear systems with sawtooth input delay and ...

The effects of two broad-spectrum antibiotics, chloramphenicol and oxytetracycline hydrochloride, on the microbial activity and biofilm stability of a mixed nitrifying culture were studied. These antibiotics are present in some wastewaters generated in cattle farms or pharmaceutical industries. A 1-L fermentor, in which nitrifiers

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grew both in suspension and in a biofilm, was used during the ...

Effect of two broad-spectrum antibiotics on activity and ...

However, if stability analysis of continuous-time systems is what bothers you, I would try to read and understand the literature on stability analysis of continuous-time systems. This is what all ...

Is it possible to prove the stability of a continuous time ...

By using our proposed approaches, larger stability regions of system parameters are identified, and tighter bounds can be obtained for the mode-dependent average dwell time. New mode-dependent and time-varying controllers are constructed for a class of switched control systems with stabilizable and unstabilizable subsystems as well.

Stability and stabilization of continuous-time switched ...

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Stability in the Mechanics of Continua: 2nd Symposium ...

Finite-time stability is defined for equilibria of continuous but non-Lipschitzian autonomous systems. Continuity, Lipschitz continuity, and Holder continuity of the settling-time function are ...

Until recently there was no uniform stability theory. Different approaches to stability problems had been developed in the different branches of mechanics. In the field of elasticity, it was mainly the so called static method and energy method which were used, while in the field of dynamics it was the kinetic method, which found its perfect expression in the theory of Liapunov. During the last few decades there has been a rapid development in the general theory of stability, stimulated, for example, by the investigations of H. ZIEGLER on elastic systems subject to non-conservative loads, and by the problems arising in aeroelasticity which are closely related to those introduced by ZIEGLER. The need was felt for kinetic methods which could also be used in investigating the stability of deformable systems. Efforts were made to adapt such methods, already known and developed in the stability theory of rigid systems, for application in the stability theory of continuous systems. During the last ten years interest was focused mainly on the application of a generalized Liapunov method to stability problems of continuous systems. All this was done in attempts to unify the various approaches to stability theory. It was with the idea of encouraging such a tendency, establishing to what extent a uniform physical and mathematical foundation already existed for stability theory in all branches of mechanics, and stimulating the further development of a common stability theory, that a IUTAM-Symposium was devoted to this topic.

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