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control for such a sandwich-like nonlinear system is proposed. The proposed controller utilizes the high-

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order sliding mode robust exact  
differentiator to compensate the impact  
of non-strict feedback coupling term due  
to the sandwiched deadzone.

## **Backstepping Control of Sandwich- like Nonlinear Systems ...**

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Authors Author: Dr. Avinash Taware,

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designed ensuring the convergence of the system trajectories in a neighborhood of the origin of arbitrary width (independently of the backlash size).

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systems with sandwiched backlash. M. L. Corradini , G. Orlando , G. Parlangeli  
Abstract— This paper proposes a novel approach for the stabilization problem of a sandwich nonlinear system with a backlash nonlinearity between two dynamic blocks.

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In Tao (1999), adaptive and nonadaptive schemes are proposed for control of a sandwich nonlinear system and a single-input and single-output gun turret system model with gear backlash. In Ezal, Kokotovic and Tao (1997) , an optimal control law is combined with a linear partial-state feedback law for backlash compensation applied to the

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nonlinear systems. Sandwiched nonsmooth nonlinearities such as dead-zone, hysteresis and backlash between dynamic blocks are presented, as well as continuous-time control designs.

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Sandwich Nonlinear Systems with  
Sandwiched Saturation Nonlinearity  
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Binazadeh; Content type: OriginalPaper;  
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5389

**Circuits, Systems, and Signal  
Processing | Volume 39, issue 11**

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Nonlinear Systems and Control Lecture  
# 1 ... but it is a restrictive condition for  
general nonlinear systems - p. 12/18.

Lemma: Let  $f(t,x)$  be piecewise  
continuous in  $t$  and locally Lipschitz in  $x$   
for all  $t \geq t_0$  and all  $x$  in a domain  $D \subset$   
 $\mathbb{R}^n$ . Let  $W$  be a compact subset of  $D$ , and  
suppose

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Modeling and Nonlinear Control of  
Magnetic Levitation Systems Ahmed El  
Hajjaji and M Ouladsine Abstract— In this  
paper, we propose a nonlinear model for  
mag-netic levitation systems which is  
validated with experimental mea-  
surements. Using this model, a nonlinear  
control law based on dif-ferential  
geometry is firstly synthesized.

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## **Modeling and nonlinear control of magnetic levitation ...**

Backstepping Control of Sandwich-like Nonlinear Systems ... An exact differentiator-based backstepping control for such a sandwich-like nonlinear system is proposed. The proposed controller utilises the high-order sliding

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mode robust exact differentiator to compensate the impact of non-strict feedback coupling term due to the sandwiched deadzone.

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Key Words--Aerospace control; nonlinear control systems; linearization

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techniques; nonlinear non-minimum phase systems. Abstract--There has been a great deal of excitement recently over the development of a theory for explicitly linearizing the input-output response of a nonlinear system using state feedback.

## **Nonlinear Control Design for**

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## **Slightly Non- minimum Phase ...**

IFAC Workshop on Control of Systems Governed by Partial Differential Equations, Paris, 2013 . 19. IFAC Nonlinear Control Systems Symposium (NOLCOS), Toulouse, France, 2013. 20. IFAC Workshop on Adaptation and Learning in Control and Signal Proc., Caen, France, 2013. 21.

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## **Miroslav Krstic - Nonlinear and Adaptive Control**

In this paper an approach for the stabilization of sandwich nonlinear systems containing a general nonsmooth nonlinearity is presented. The proposed solution is based on variable structure control theory, and

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ensures the robust ultimate boundedness of the system trajectories in a neighborhood of the origin.

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