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## **Sensorless Tension Control In Paper**

Sensorless Tension Control in Paper  
Machines M. Aníbal Valenzuela, Senior  
Member, IEEE, John Martin Bentley, Life  
Fellow, IEEE, and Robert D. Lorenz,  
Fellow, IEEE Abstract— Proper operation  
of the dry end of a paper machine

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requires some type of sheet tension control. Present systems use either indirect-speed-control-based schemes, or sensor-based di-

## **Sensorless tension control in paper machines - Industry ...**

This paper develops an integrated, sensorless tension control and sheet

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modulus of elasticity estimation algorithm, which is tested using field recorded signals from a production paper machine and...

## **(PDF) Sensorless tension control in paper machines**

Sensorless tension control in paper machines Article (PDF Available) in IEEE

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Transactions on Industry Applications  
39(2):294 - 304 · April 2003 with 318  
Reads How we measure 'reads'

## **(PDF) Sensorless tension control in paper machines**

Sensorless tension control in paper  
machines Abstract: Proper operation of  
the dry-end of a paper machine requires

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some type of sheet tension control. Present systems use either indirect speed control based schemes, or sensor based direct tension control utilizing load cells or swing rolls.

## **Sensorless Tension Control In Paper Machines Industry**

In this paper, a novel sensorless tension



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control of a shuttleless loom system based on SVR(Support Vector Regression) is presented. The sensorless tension algorithm of shuttleless loom system driven by servo motor which is robust to disturbance and tension variation.

## **Sensorless tension control of**

# Read Online Sensorless Tension Control In Paper Machines Industry **shuttleless loom system ...**

This paper focuses on active wire tension control of motor winding machines. An ILSMC scheme for wire tension control is developed. A disturbance observer is used to implement sensorless wire tension control. The estimated wire speed is exploited in designing the tension

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## **Wire tension control of an automatic motor winding machine**

...

occur when tension is not controlled at the unwind station. • It is impossible to rewind rolls from a process without proper tension control at the rewind

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station. Telescoping, “dished” rolls, wrinkles and even web breaks will occur when tension is not controlled at the rewind station. EXAMPLE OF A “DISHED ROLL”

## **THE MECHANICS OF TENSION CONTROL**

Basics of Web Tension Control Summary

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Presenter: Darrell Whiteside, Sales Channel Manager - Tension Control Maxcess International This presentation is intended to take the mystery out of web tension control. It is intended for operators, designers and engineers who would like a better

## **Basics of Web Tension Control**

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## **Summary**

tension control. Problems associated with winding or unwinding of web materials are described. Finally, an example shows how to code a servo application for taper tension control of a re-winder. Tension zones and Nip Induced Tension Tension zones and Nip Induced Tension Different processes

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require different tensions.

## **AN00212-001 Tension control - Motion control - Powering ...**

The sensor is a roller which is able to measure the web tension by transforming the mechanical signal to an electrical signal. But each roller in the plant is able to cause problems in the

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lateral control of the web or generate web wrinkling. Therefore it would be better to get the web tension sensorless. This would save problems and money.

## **Sensorless tension control of webs - SHAREOK**

drives to pull the paper-web, and the unwinder drive to provide the web



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tension control - the unwinder thus operates at a braking torque that keeps the tension force at the desired set point.

**NOVI SAD, REPUBLIC OF SERBIA,  
October 26 - 28 , 2011 ...**

Sensorless control of a BLDC PM motor based on I-f starting and back-EMF zero-

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crossing detection. The present paper introduces a novel sensorless control of brushless dc permanent magnet (BLDC-PM) motor based on I-f principle for starting (from any initial position) with seamless commutation to BEMF zero crossing detection above a certain speed.

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**Sensorless control of a BLDC PM motor based on I-f ...**

Sensorless Field Oriented Control of 3-Phase Permanent Magnet Synchronous Motors Bilal Akin and Manish Bhardwaj

ABSTRACT This application report presents a solution to control a permanent magnet synchronous motor (PMSM) using the TMS320F2803x

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microcontrollers. TMS320F2803x devices are part of the family of C2000

## **Sensorless Field Oriented Control of 3-Phase Permanent ...**

vation, activation and deactivation of tension control loops, change of parent roll, and sheet break. A core part of the system is the su-pervision of the

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sensorless tension control of the dry-end sections, assuring its long-term stability. Index Terms—Expert system, paper machine drive, sensorless tension control, tension control. I ...

**680 IEEE TRANSACTIONS ON  
INDUSTRY APPLICATIONS, VOL. 40  
...**

## Read Online Sensorless Tension Control In Paper Machines Industry

Joined: 12/11/2015. Last visit: 5/15/2017.  
Posts: 2. Rating: (0) I am currently doing an install of two motors and VFDs on a paper winding machine and I am getting some issues with the speed control in torque mode and I was hoping that I would be able to get some help.

**g120c torque control with**

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## **sensorless - Entries - Forum ...**

Taper Tension for Rewind Control.  
Posted by Bryon Williams & filed under  
Article Library, Technical Papers.. Center  
winding film or other extensible material  
comes with inherent difficulties. If you  
maintain a constant tension on the web,  
as the diameter of the roll increases, the  
wraps become tighter.

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## **Taper Tension for Rewind Control: Definitions & Processes ...**

Tension control is achieved by the integral PID Trim function of an AC Flux vector drive. This PID Trim function is used to control dancer position by sensing arm movement and trimming drive speed. Tension is adjusted by



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changing the load on the dancer arm (usually by means of a low friction air cylinder or balance weights).

### **ASD**

With the exception of three anomalous days this summer, Wednesday's U.S. total of more than 1,470 deaths was the highest since late May. Experts say the

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nation's new coronavirus database ...

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