

## Sensorless Tension Control In Paper Machines Industry

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### Sensorless Tension Control In Paper

Sensorless Tension Control in Paper Machines M. Anibal 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 requires some type of sheet tension control. Present systems use either indirect-speed-control-based schemes, or sensor ...

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

Sensorless tension control in paper machines Article (PDF Available) in IEEE Transactions on Industry Applications 39(2):294 - 304 - April 2003 with 318 Reads How we measure 'reads'

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

This paper develops an integrated, sensorless tension control and sheet 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 Abstract: Proper operation of the dry end of a paper machine requires 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 - IEEE ...

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### Sensorless Tension Control In Paper Machines Industry

In this paper, a novel sensorless tension 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. First, the modeling and dynamic behaviors of a shuttleless loom system is ...

### Sensorless tension control of shuttleless loom system ...

In particular, this paper focuses on observer-based sensorless wire tension estimation and tension control of the unwind roll so as to improve the performance of automatic motor winding machines. The number of existing researches on wire tension control of an automatic motor winding machine is surprisingly few [1].

### 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 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 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 Summary

In this paper, a novel sensorless tension 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 shuttleless loom system ...

generator and torque difference control 2.2. Web tension control Closed loop tension control is implemented in the control algorithm of the rewinder. The tension force set-point and the tension profile as a function of the shipping roll diameter [2] is set by the operator, as shown in Fig. 2. The tension feedback is obtained either from the load

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

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 TensionTension zones and Nip Induced Tension Different processes require different tensions.

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

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 control scheme. •

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

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 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

Vector Control Real Sensorless Vector Control Advanced Magnetic Flux Vector Control V/F Control Speed Control Torque Control Tension control (Torque Control) Speed Control Torque Control Tension control Control) Pr.800 setting 0, 2 1, 2 6 10, 12 11, 12 16 20 20 Dancer control Winding diameter compensation function

### Dancer Control Function Tension Control Function

The control of longitudinal tension in a multi-span web transport system during start up is studied using first-principles modeling and digital simulation. Since start-up problems normally involve large variations of system roller velocities, nonlinear models (rather than linearized models) are used for the analysis. Examples of systems using load cells and dancer subsystems for tension ...

### Control of longitudinal tension in multi-span web ...

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

### ASD

The drive is equipped with dedicated functions, such as tension sensorless torque control and tension sensor feedback speed control. Variable tension is applied to the material to maintain constant flow on the winding and unwinding sides, helping to eliminate imperfections such as wrinkles or deformation. These functions do not require ...