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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 requires

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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

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

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. The indirect schemes are inadequate for most newer machines,...

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(PDF) Sensorless tension control in paper machines

Sensorless tension control in paper machines. A 'read' is counted each time someone views a publication summary (such as the title, abstract, and list of authors), clicks on a figure, or views or downloads the full-text. Proper operation of the dry-end of a paper machine requires some type of sheet tension control.

(PDF) Sensorless tension control in paper machines

In a winding system, it is very important to control the tension precisely. Based on the process of rewinding and unwinding, a sensorless tension control method with PI parameters of adaptive speed controllers is proposed in this paper. According to the principle of torque balance, a tension observer is designed to replace the tension sensor, and the observed value instead of the measured ...

No-Tension Sensor Closed-Loop Control Method with

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Adaptive ...

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 ...

This paper proposes a method for sensorless tension control of shape memory alloy(SMA) actuators. Sensorless control has advantages in cost and size. Gated recurrent unit(GRU) was adopted to model complex characteristics of the SMA actuators. GRU is one of the machine learning technologies, which is evolved from the recurrent neural network.

Modeling and sensorless tension control of SMA actuator

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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 ...

Proper tension control is essential to controlling print-to-print or die-cut registration. Laminating operations require layers to be laminated with proper tension to avoid web curl. Slitting operations require proper slit position, which is a function of tension and web guiding.

Web Tension 101 - Paper, Film & Foil Converter

- It is impossible to control your web without proper tension being applied to it. The web must be “in traction” with all machine idler rolls and driven rolls to ensure proper web

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handling and control. • The web handling principal states a web will seek to align itself perpendicular to an idler or driven roll.

THE MECHANICS OF TENSION CONTROL

most commonly used methods to perform tension control are load cells and dancers. Both have been compared in [6]. Tension control is performed using direct measurement of web tension in the case of load cells. Several centralized and distributed robust control strategies based on H 1 controllers, LQG controllers or state feedback are proposed in [2], [7],

H ∞ Unwinding Web Tension Control of a Strip Processing

...

In many processing machines in the plastic-, textile- and paper industry only the speed of the roller is controlled. The web tension is a function of the speed relation. The disadvantage of only controlling the speed is that the changes in the tension of

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the web during the technological process cannot be controlled.

Sensorless tension control of webs - SHAREOK

Namely, the wire tension is regulated by servomotors instead of passive devices. 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.

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

Tension sensorless torque control Tension sensor feedback torque control During dancer feedback speed control, speed is controlled for keeping a constant tension on the workpiece (winding/unwinding shaft) by using the dancer roll position and line speed data.

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Product Feature FR-A800 Plus for Roll to Roll

Tension control in the calender is usually activated by the operator at the time that the paper machine has been stabilized at the operating speed and the sheet starts to wind on the reel.

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

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 require different tensions.

AN00212-001 Tension control - Baldor motion

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