

Sensorless Tension Control In Paper Machines Industry

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Sensorless Tension Control In Paper

A sensorless sheet tension control for the dry end of a paper machine is presented and evaluated in Ref. [33]. This tension estimation algorithm only uses conventional motor and control signals ...

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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...

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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-based di-

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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. The indirect schemes are inadequate for most newer machines, and both types of the commonly used sensor based schemes are invasive, expensive, require either special, or extra rolls, and add complexity to ...

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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.

Sensorless Tension Control In Paper Machines Industry

The overview in this paper uses signal flow graphs of complex space vector quantities to provide an insightful description of the systems used in sensorless control of induction motors. Keywords: Induction motor, sensorless control, vector con-trol, complex state variables, observers, modelling, identifi-cation, adaptive tuning 1. INTRODUCTION

Paper: Sensorless Control of Induction Motor Drives

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

Sensorless tension control in paper machines By M.A. Valenzuela, J.M. Bentley and R.D. Lorenz Get PDF (566 KB)

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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 ...

Web tension sensors and components, dancer systems and accumulators. Load cell selection and dancer system design criteria. Methods of tension control, open and closed loop control. Modes of tension control i.e., speed and torque and their proper application. The effects of web compliance on tension control and control method considerations.

Web Tension Control Fundamentals - Paper, Film & Foil ...

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. •

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