

DEVELOPMENT OF A GENERIC TENSION CONTROL SYSTEM

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ABSTRACT

This paper describes the development of a Generic Tension Control System (GTCS) test bed that is to be used to train people and demonstrate the principles of tension control. In order to correctly size the motors, the associated power electronics and sensors required by the GTCS a system model has to be developed in order to assess the performance and requirements via simulation in SIMULINK. The simulation results are presented and it is shown how the system components were sized.

1. INTRODUCTION

In the rolling industries, such as the paper, steel, aluminium, etc., it is important to maintain the correct tension in the material to achieve both high product quality and production output. Most tension control systems employed in this country are imported and there is very little understanding of the underlying principles. DC drives are employed in most industrial rolling applications as they allow both torque and speed control that are essential to achieve tension control.

In all tension control applications the underlying principles are similar although the manner in which they manifest themselves in specific applications may differ quite markedly. In the steel rolling industry for example the material is changed in shape by rolling it in a manner in which the cross-sectional area is reduced. By the conservation of the volume of the material elongation of the material must occur. Here tension control is used to maintain inter-stand tension so that each stand may roll independently of the stands on either side of it. [1]

As it was not possible to build a steel rolling mill or a hot aluminium mill with the resources available to the project, a paper unwind, rewinder was chosen as it is relatively simple to build and can clearly demonstrate the principles of tension control and how this can be achieved with the use of AC motors.

2. SYSTEM DESCRIPTION

In most paper rolling applications the paper is wound off the unwinder and passes into a process at the line (paper) speed and tension required by the process. The same criterion generally apply to winders where the processed paper is rewound onto a reel. The objective of the control is to maintain

tension at a specified line speed. In order to start the simulation process a system description is required with the relevant models for the system.

The paper rewinder being considered for the GTCS test bed system is shown in Fig. 1. The paper is initially on the unwinder and is wound onto the winder. Two three phase vector controlled AC induction motor drives are used to make the AC motors appear as DC motors [2]. The master controller is used to control the speed of the paper and the paper tension using the AC drives as torque controllers. The paper passes under two guide rolls and over a roller that is supported on force transducing bearings to provide the tension feedback required for closed loop tension control.

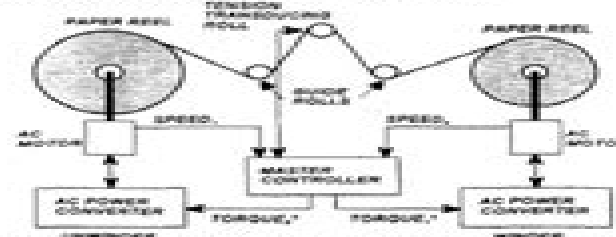


Fig. 1. Generic Tension Control System Test Bed

3. MECHANICAL SYSTEM MODELLING

The standard electrical torque equation for the AC motors appears in eq. 1. The electrical torque consists of an inertia torque, a frictional torque and paper tension torque. As the motor and load are to be directly coupled with a torsionally stiff coupling the motor inertia is lumped together with load inertia as is the frictional resistance of the motor and load. The corresponding differential equation for both the winder and unwinder is therefore:

$$T_e = J_{(R)} \cdot \frac{d^2\theta}{dt^2} + B \cdot \frac{d\theta}{dt} + PT \cdot R \quad (1)$$

$$\begin{aligned} J_{(R)} &= J_{\text{motor}} + J_{\text{load}} & \text{kgm}^2 & & PT &= \text{Paper Tension N} \\ B &= B_{\text{motor}} + B_{\text{load}} & \text{Nmms}^{-1} & & R &= \text{Reel Radius m} \\ T_e &= \text{Electrical Torque Nm} & & & \theta &= \text{Reel Angle rad} \end{aligned}$$

4. PAPER MODEL

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associated drives and details various advanced electrical loads as well as battery technology for automobile applications As we seek to answer the call for safer more efficient and lower emission vehicles from regulators and consumer insistence on better performance comfort and entertainment the technologies outlined in this book are vital for engineering advanced vehicles that will satisfy these criteria **Electrical & Electronics Abstracts** ,1997 **2000 IEEE 31ú Comhdháil**

Bhliantúil Na Saineolaithe Ar Leictreonaic Chumhachta : Imeachtaí Na Comhdhála ,2000 **Computational Electromagnetics for RF and Microwave Engineering** David B. Davidson,2005-02-24 Publisher Description **Power Plants and Power Systems Control 2006** David Westwick,2007-02-06 Control plays a very important role in all aspects of power plants and power systems The papers included in the 2006 Proceedings are by authors from a large number of countries around the world They encompass a wide spectrum of topics in the control of practically every aspect of power plants and power systems *Polymer Composites for Electrical Engineering* Xingyi Huang,Toshikatsu Tanaka,2021-11-01 Explore the diverse electrical engineering application of polymer composite materials with this in depth collection edited by leaders in the field Polymer Composites for Electrical Engineering delivers a comprehensive exploration of the fundamental principles state of the art research and future challenges of polymer composites Written from the perspective of electrical engineering applications like electrical and thermal energy storage high temperature applications fire retardance power cables electric stress control and others the book covers all major application branches of these widely used materials Rather than focus on polymer composite materials themselves the distinguished editors have chosen to collect contributions from industry leaders in the area of real and practical electrical engineering applications of polymer composites The books relevance will only increase as advanced polymer composites receive more attention and interest in the area of advanced electronic devices and electric power equipment Unique amongst its peers Polymer Composites for Electrical Engineering offers readers a collection of practical and insightful materials that will be of great interest to both academic and industrial audiences Those resources include A comprehensive discussion of glass fiber reinforced polymer composites for power equipment including GIS bushing transformers and more Explorations of polymer composites for capacitors outdoor insulation electric stress control power cable insulation electrical and thermal energy storage and high temperature applications A treatment of semi conductive polymer composites for power cables In depth analysis of fire retardant polymer composites for electrical engineering An examination of polymer composite conductors Perfect for postgraduate students and researchers working in the fields of electrical electronic and polymer engineering Polymer Composites for Electrical Engineering will also earn a place in the libraries of those working in the areas of composite materials energy science and technology and nanotechnology **Signal Processing for Solar Array Monitoring, Fault Detection, and Optimization** Henry Braun,Mahesh Banavar,Andreas Spanias,Venkatachalam Krishnan,CIHAN TEPEDELENLIOGLU,Tohru Takemasa,Shinichi Takeda,2022-06-01 Although the solar energy industry has experienced rapid growth recently high level

management of photovoltaic PV arrays has remained an open problem As sensing and monitoring technology continues to improve there is an opportunity to deploy sensors in PV arrays in order to improve their management In this book we examine the potential role of sensing and monitoring technology in a PV context focusing on the areas of fault detection topology optimization and performance evaluation data visualization First several types of commonly occurring PV array faults are considered and detection algorithms are described Next the potential for dynamic optimization of an array s topology is discussed with a focus on mitigation of fault conditions and optimization of power output under non fault conditions Finally monitoring system design considerations such as type and accuracy of measurements sampling rate and communication protocols are considered It is our hope that the benefits of monitoring presented here will be sufficient to offset the small additional cost of a sensing system and that such systems will become common in the near future Table of Contents Introduction Overview of Photovoltaics Causes Performance Degradation and Outage Fault Detection Methods Array Topology Optimization Monitoring of PV Systems Summary

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Advanced Control Engineering Methods in Electrical Engineering Systems

Mohammed Chadli, Sofiane Bououden, Salim Ziani, Ivan Zelinka, 2018-09-10 This book presents the proceedings of the Third International Conference on Electrical Engineering and Control ICEECA2017 It covers new control system models and troubleshooting tips and also addresses complex system

requirements such as increased speed precision and remote capabilities bridging the gap between the complex math heavy controls theory taught in formal courses and the efficient implementation required in real world industry settings Further it considers both the engineering aspects of signal processing and the practical issues in the broad field of information transmission and novel technologies for communication networks and modern antenna design This book is intended for researchers engineers and advanced postgraduate students in control and electrical engineering computer science signal processing as well as mechanical and chemical engineering

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