

Design of Closed Loop Electro Mechanical Actuation System

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ABSTRACT: An Actuator is basically a position servo control system used in industries and vehicles. A rotary electro mechanical actuation system is an angular positioning system used in aerospace applications such as control of rudder and ailerons of aero planes and control of control surfaces, jet vanes, etc. This position loop system is to steer the vehicle to move in required direction. A servo controller is a driver to accurately control the position of the actuation system by getting the command signals from the on-board computer of the vehicle. It involves a class of DSP controller optimized for digital motor motion control and power conversion applications. In this thesis, Closed loop Rotary Electro Mechanical Actuating system is designed for the derived specifications by using the CAD software UNIGRAPHICS, and simulated the design with the help of FEA software ANSYS and MATLAB.

KEYWORDS: Actuator, ANSYS, CAD, DSP controller, UNIGRAPHICS.

I. INTRODUCTION

This document covers the description, design, inputs and specifications of the Actuation System for aerodynamic control of an Aero-vehicle. The document also describes the actuator specifications, mechanical components, BLDC motor, position sensor and the control system including simulation.

I.1. Actuator

An actuator is a mechanism that converts energy into motion. It can also be used to apply a force. An actuator typically is a mechanical device that takes energy, usually created by air, electricity, or liquid, and converts that into some kind of motion. That motion can be anything from blocking to clamping to ejecting. Actuators are typically used in manufacturing or industrial applications and may be used in things like motors, pumps, switches, and valves. The most common type of actuator is powered by air — the pneumatic cylinder, also known as the air cylinder. Air cylinders are air-tight cylinders, typically made from metal, that use the energy of compressed air to move a piston. Air cylinders are most commonly used in manufacturing and assembly processes. Grippers, which are used in robotics, use actuators driven by compressed air to work much like human fingers. Actuators can also be powered by electricity or hydraulics. Much like there are air cylinders, there are also electric cylinders and hydraulic cylinders where the cylinder converts electricity or hydraulics into motion. Hydraulic cylinders are often used in certain types of vehicles.

Many actuators have more than one type of power source. Solenoid valves, for example, can be powered by air and electricity. Electricity powers the solenoid, and the solenoid, powered by air actuates the valve. Alternatively, the solenoid can be powered by hydraulics and electricity. Actuators can create a linear motion, rotary motion, or oscillatory motion. That is, they can create motion in one direction, in a circular motion, or in opposite directions at regular intervals. Hydraulic and air cylinders can be classified as single acting, meaning that the energy source causes movement in one direction and a spring is used for the other direction. Alternatively, these cylinders can be double acting cylinders, meaning the energy is used in two directions. While actuators are typically discussed in terms of mechanical implements, muscles are sometimes given as an example of an actuator. Energy (e.g., created by eating carbohydrates) is converted by the muscle (i.e., the actuator) into motion (e.g., kicking a ball).

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Electro-Mechanical Actuators for the More Electric Aircraft Mirko Mazzoleni, Gianpietro Di Rito, Fabio Previdi, 2021-01-19 This book presents recent results on fault diagnosis and condition monitoring of airborne electromechanical actuators illustrating both algorithmic and hardware design solutions to enhance the reliability of onboard more electric aircraft The book begins with an introduction to the current trends in the development of electrically powered actuation systems for aerospace applications Practical examples are proposed to help present approaches to reliability availability maintainability and safety analysis of airborne equipment The terminology and main strategies for fault diagnosis and condition monitoring are then reviewed The core of the book focuses on the presentation of relevant case studies of fault diagnosis and monitoring design for airborne electromechanical actuators using different techniques The last part of the book is devoted to a summary of lessons learned and practical suggestions for the design of fault diagnosis solutions of complex airborne systems The book is written with the idea of providing practical guidelines on the development of fault diagnosis and monitoring algorithms for airborne electromechanical actuators It will be of interest to practitioners in aerospace mechanical electronic reliability and systems engineering as well as researchers and postgraduates interested in dynamical systems automatic control and safety critical systems

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