

Fig. 2. Experimental setup.

3. Experimental results

3.1. Experimental setup

The laboratory prototype consist of a servomotor from Moog, model C34-L80-W40 (Fig. 2) driven by a Copley Controls power servoamplifier, model 423, configured in current mode. A BEI optical encoder, model L15 with 2500 pulses per revolution, allows measuring the servomotor position. The algorithms are coded using the MatLab/Simulink software platform under the program Wincon from Quanser Consulting, and a Quanser Consulting. Q8 board performs data acquisition. The data card electronics increases four times the optical encoder resolution up to 2500 ×. 4 = 10 000 pulses per revolution. The control signal produced by the Q8 board passes through a galvanic isolation box. The software runs on a personal computer using an Intel Core 2 quad processor. and the Q8 board is allocated in a PCI slot inside this computer. The following transfer function, which is composed of a high-pass filter in cascade with a low-pass filter, allows obtaining velocity estimates from position measurements

$$G(s) = \frac{400s}{s + 400} \frac{500}{s + 500}$$

The low pass filter attenuates the high frequency components of the position signal. The Simulink diagrams use a sampling period of 0.1 ms and the ODE5 solver. Fig. 2 depicts the experimental setup.

3.2. Experiments

3.2.1. Parameter identification

Two Duffing systems generate the signal used for exciting the servomechanism

$$\dot{x}_{1i} = x_{2i}\omega_{0}\pi$$
 (31)
 $\dot{x}_{2i} = [-0.25 + x_{2i} + x_{1i} - 1.05x_{1i}^{3} + 0.3 \sin(\omega_{0}\pi t)]\omega_{0}\pi$; $i = 1, 2$
 $s_{r} = 7x_{11} - 5x_{32}$; $x_{3i}(0) = 0$; $x_{2i}(0) = 0$;
 $\omega_{1} = 1 \text{ rad/s}$; $\omega_{2} = 2 \text{ rad/s}$,

This type of chaotic excitation was proposed in [24] for parameter identification of a speed controlled servomotor. Fig. 3 shows the time evolution of s_e . The gains for the PD controller are $k_p = 10$ and $k_d = 0.28$, and the update law gains are I' = diag [12 3000 180 90].

Fig. 4 shows the time evolution of the parameter estimates obtained using the proposed approach. Fig. 5 depicts the input error e_a and the evaluation of the PE condition (30) with $w = \frac{1}{2} \begin{bmatrix} 1 & 1 & 1 \end{bmatrix}^T$; the values for the PE condition in Fig. 5(b) are

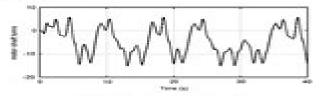
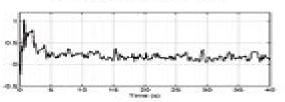
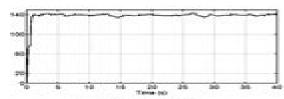


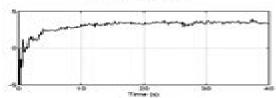
Fig. 3. Chaotic excitation signal.



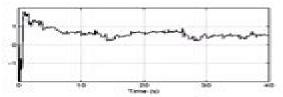
Parameter estimate à



Parameter estimate 5



Parameter estimate &



Panameter estimate al.

Fig. 4. Parameter estimates obtained using the CLIE method: å. å. å. and ål.

shown every five seconds, i.e. 3 = 5 s. Hence, the regressor vector fulfills the PE condition during the experiment. Table 1 shows the parameter estimates obtained from the experiment. They were

Servomechanism Analysis

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Servomechanism Analysis:

Servomechanism Analysis George Julius Thaler, Robert George Brown, 1953 The Analysis and Synthesis of Linear Servomechanisms United States. Army Materiel Command, 1965 Servomechanisms Albert Carruthers Hall, 1947 Analysis and design of feedback control systems: formerly, Servomechanism analysis George Julius Thaler, 1960 The Study of a Relay Servomechanism Silas Earl Carmean, 1961 Linear Operator Analysis of Carrier-frequency Servomechanisms Charles August Halijak, 1956 Servomechanism Fundamentals Henri Lauer. Robert Lesnick. Leslie E. A Survey of Stability Analysis Techniques for Automatically Controlled Aircraft Arthur L. Jones, Benjamin R. Matson, 1947 Briggs, 1951 A survey of the stability analysis techniques for automatically controlled aircraft is presented The survey is limited to techniques commonly applied to linear continuous control systems wherein the difference between the output and input quantities is measured continuously and is used in the operation of the system a closed loop system An evaluation of the techniques based on the kind and amount of information derivable is included An illustrative example is also presented to demonstrate the calculations involved for a typical aircraft autopilot combination WADC Technical Report United States. Wright Air Development Division, 1954 A Differential Analyzer Study of Certain Nonlinearly Damped Servomechanisms for Various Input Signals Ralph Russell Caldwell,1952 Handbook of Supersonic Aerodynamics R. J. Research in Nonlinear Mechanics as Applied to Servomechanisms Cook Electric Company. Cook Research Volluz, 1961 Handbook of Supersonic Aerodynamics Johns Hopkins University. Applied Physics Laboratories.1954 Laboratory, 1961 Ordnance Engineering Design Handbook United States. Army. Ordnance Corps, 1959 Technical Abstract Bulletin ,1964 **Applied Mechanics Reviews** ,1974 **AFPTRC-TN.** ,1956 Annual Catalog - United States Air Force Academy United States Air Force Academy, 1962 United States Air Force Academy United States Air Force Academy, 1963 Current Hydraulic Laboratory Research in the United States ,1964

This book delves into Servomechanism Analysis. Servomechanism Analysis is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Servomechanism Analysis, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of Servomechanism Analysis
 - Chapter 3: Servomechanism Analysis in Everyday Life
 - Chapter 4: Servomechanism Analysis in Specific Contexts
 - ∘ Chapter 5: Conclusion
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- 4. In chapter 3, this book will examine the practical applications of Servomechanism Analysis in daily life. The third chapter will showcase real-world examples of how Servomechanism Analysis can be effectively utilized in everyday scenarios.
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- 6. In chapter 5, the author will draw a conclusion about Servomechanism Analysis. This chapter will summarize the key points that have been discussed throughout the book.
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