

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

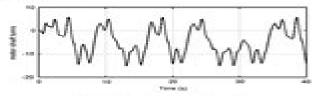
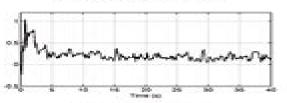
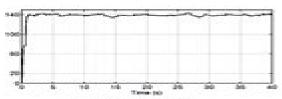


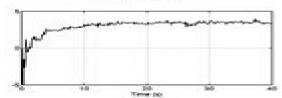
Fig. 3. Chaotic excitation signal.



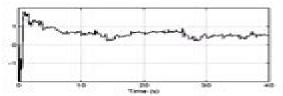
Parameter estimate à



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

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Arthur L. Jones, Benjamin R. Briggs

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