











Evolution of the adjustable parameters  $\theta_1$  and  $\theta_2$  is shown by the figure (FIG.9);  $\vartheta_1$ ,  $\vartheta_2$  by (FIG.10).

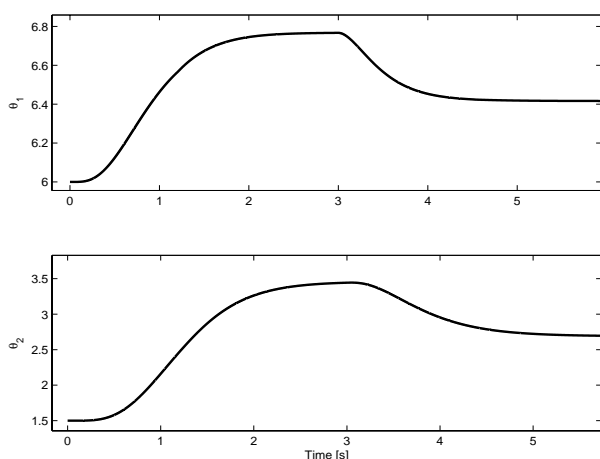


Figure 9: Parameters  $\theta_1$  and  $\theta_2$ .

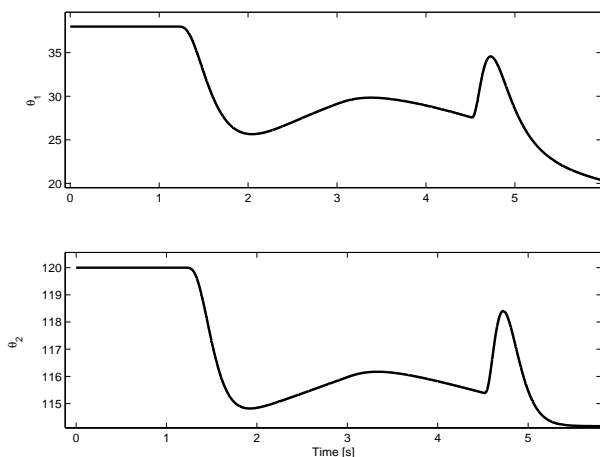


Figure 10: Parameters  $\vartheta_1$  and  $\vartheta_2$ .

## 5 Conclusion

we clarified FOC control for PMSM. The uncoupling control, us made it possible to use adaptive regulators and to have an effect uncoupled on the regulation from direct current and rotating speed.

The two regulators used are PI adaptive in the control loops of the direct current and of rotating speed. The results are good. Simulations show the effectiveness of adaptation.

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