

Non-Linear Control in Positioning of PMLSM by Estimates of the Load Force by MRAS Method

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Abstract : This article presents a study in simulation by means of MATLAB/Simulink software of the nonlinear control in positioning of a linear synchronous machine with the esteemed force of load, to have effective control in the estimator in all tests the wished trajectory follows and the disturbance of load start. The results of simulation prove clearly that the control proposed can detect the reference of positioning the value estimates of load force equal to the actual value.

Keywords : mathematical model, Matlab, PMLSM, control, linearization, estimator, force, load, current

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