Simulation software: Matlab/Simulink R2024b

Simulation settings: fixed step size, 1ms step size, solver ODE3

1. Van0: The Parameter identification model V0 includes N-PE and weak excitation intensity (by modifying the initial value of the system state). The simulation results correspond to Fig. 1-4.
2. Van1: Parameter identification model V1 is used to verify the convergence results of estimation errors under different predefined-time constants. The simulation results correspond to Fig. 5-6.
3. Van2: Parameter recognition model V2, considering noise. The simulation results correspond to Fig. 7.
4. Van3: The adaptive control model applies the proposed method to adaptive control and sets different initial values and unknown parameters. The simulation results correspond to Fig. 8-13.

If you have any questions, please contact the author at email: 1442293677@qq.com.