Fu, Jingchao; Zhou, Jianbo

Adaptive feedback control and trajectory tracking control of chaotic memory system. (Chinese. English summary) Zbl 07366885

Summary: The adaptive feedback control and the trajectory tracking control based on the feedback linearization of the chaotic memory system are studied. Firstly, the complex dynamic behavior of the system is verified by the time-domain waveform and the chaotic attractor. Then, the adaptive feedback control method and the trajectory tracking control method based on feedback linearization are respectively applied to design the controller to control the system. Finally, the effectiveness of the controller is verified by numerical simulation.

MSC:
93C40 Adaptive control/observation systems
93B52 Feedback control
93B18 Linearizations

Keywords:
chaotic memory system; adaptive feedback control; trajectory tracking control