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Variable structure control of robot manipulator with adaptive feedforward compensator and its implementation. (Chinese. English summary) Zbl 0734.70004

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Summary: In order to realize high-speed, high-precision control of robot manipulators, a new robust control algorithm is proposed by coupling the adaptive feedforward compensator to the variable structure control. Real-time control results show the validity and feasibility of the presented method.

MSC:

70B15 Kinematics of mechanisms and robots

93C40 Adaptive control/observation systems

Cited in 1 Document

Keywords:

high-precision control; robot manipulators; adaptive feedforward compensator; variable structure control