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ADAPTIVE CONTROL BY SINGLE-CHANNEL PLANT IN THE SCHEME WITH DYNAMIC  
PROOF-READERS AND THE ACCOUNT SATURATION OF CONTROL SIGNAL

Article is devoted control system by is minimum-phase plant with saturation on the input functioning in the conditions of aprioristic uncertainty at action of uncontrollable limited hindrances and measurement only of an adjustable exit. In offered adaptive system achievement of an plant in view of control is provided at the expense of the algorithms using dynamic switching of modes of adjustment of factors of a regulator accordingly at occurrence or disappearance of a condition of saturation on an input. The results of modelling showing working capacity of considered system of adaptation are presented.

**Keywords:** single-channel plant, saturation of control signal, the aprioristic uncertainty, setting and target proof-readers, adaptive regulator, a contour of self-adjustment with the dynamic switch, hyperstability,  $L$ -dissipativnost.

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