

Features of Synthesis of Nonlinear Control System Regulators

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Abstract: The paper explored the method of synthesis of the PID control system with the nonlinearity of the “saturation”. As a theoretical basis for the methodology we used the frequency method for linear systems. The effect of nonlinearity on the factors was specified by controller simulation modeling in MATLAB+Simulink. The working capacity of the research methodology was performed on a specific example of electro-hydraulic control system of road roller velocity.