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**HIGH-ORDER INTEGRAL ADAPTATION IN THE PROBLEMS OF NONLINEAR CONTROL SYNTHESIS**

The work demonstrates application of the high-order integral adaptation to design robust control laws for nonlinear engineering systems. This approach for disturbance compensation does not require to synthesize the state and disturbance observers and consequently eliminates real-time estimation of these disturbances.

**Keywords:** nonlinear control, robust control, synergetic control theory, invariant, integral adaptation, sliding mode control.

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