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Nonlinear Control of Technological Processes

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Abstract:

The work is focused on the applications of the nonlinear control techniques to the technological systems from various types of industry. The most of the processes have nonlinear behaviour and control of such processes with classical control techniques with fixed parameters could result in unoptimal control results. Student will obtain knowledge from the modelling, simulation and various types of modern control methods. The task will be to find appropriate control strategy for control of selected technological processes firstly with the simulation experiments and finally with the verification on the real system or real model of the system. The software for modelling and simulation could be Matlab, Matlab's Simulink or Mathematica.

Literature:

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