

ABSTRACT

Master's thesis project on "Optimal control system of granulating" comprises an explanatory note volume 95 page and 17 posters.

According thesis topic there was published 3 notices on students conference.

Explanatory note contains 24 figures, 8 tables, and 18 literature applications.

Sections explanatory note contain the analysis of the granulating process of ammonia sulfate and types of instrumental designed a manufacture; fluidizer bed was identified; was deduced the mathematical model of the control object and its characteristics; using Bellman's principle of optimality were designed optimal control system; there were analysis types of automation system heating and granulating process; the question of safety measurement of the ammonia sulfate manufacturing were viewed;

Keywords: ammonia sulfate, fluidizer bed, automation, control object, transients process, optimal control system, Bellman's principle of optimality, safety measures, MatCAD.