

Course: System analysis of complicated chemical-technological complexes

Coursework:

“The process granulation and dehydration of ammonium sulfate”

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Summary

In this course work we study the process of ammonia synthesis. The flowsheet of ammonia synthesis was examined. Since the circuit is closed, the structural analysis was carried out. This flowsheet was simulated in the ChemCad program. As a result of the simulation off low sheet the material and energy balances were received. Process productivity is 100 kg/hour. This course work is a test of systems analysis and chemical engineering: the studying the process of ammonia synthesis.