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Fractionation step in the technological process on reaction-rectification column of ethylene glycol manufacturing

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Features of fractionation mixture in the synthesis of ethylene glycol by hydration of ethylene oxide in reaction-rectification column are studied. Adequacy of the mathematical model applied to the process is evidenced. The ethylene glycol purity is shown depending on the process mainly. Side reaction polyglycols formation restricts obtaining high purity ethylene glycol: It can be isolated only as sideway stream the bottom section of the reaction-rectification column.

Biography

Naum Samoilov is a Professor of the Ufa State Petroleum Technical University. He has completed DSc in Petroleum Refining and DPh in Chemical Engineering. He is the author of more than 600 scientific works, which were published in prestige journals, patents and transaction of international and regional conferences; also he is the author of 13 monographs and teaching aids.

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