

STUDY ATRIPLE-EFFECT EVAPORATOR FOR PRODUCTION OF CONCENTRATED SODIUM HYDROXIDE

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ABSTRACT

Caustic soda is the one of the most important products for the different chemical industries, in this aspect, the factors affecting the steam economy in the multiple - Effect evaporators were investigated .These factors include, the feed compositions, steam's pressure and the feed introduction positions. It was found that the feed compositions are very important, the lower the concentration ,the better is the economy. Therefore, it is feasible to introduce diluted feed rather than very concentrated one. It was also found that the best location for feed introduction is the first evaporator, the claim that positions in evaporator II and III may be better for steam economy is found not applicable in this case. One the other hand the steam pressure has appositve effect in the steam economy, the lower the pressure the better is steam economy.

Keywords: Caustic soda, evaporator, feed introduction, steam economy.