

ABSTRACT

Electrolytic production of chlorine, alkalis and hydrogen

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Developed coursework electrochemical production of chlorine, alkalis and hydrogen. We consider the physical and chemical properties of chlorine and alkali, their use in industry and methods of obtaining. The selection and description electrolyzer design type Krebs-Cosmo and technological schemes of chlorine, hydrogen and alkali mercury method. Calculations mercury type electrolytic Krebs-Cosmo current load of 30 kA. Calculated balances of current, voltage and power, heat and material balances and expenditure ratios.

FOR ELECTROLYTIC CHLORINE AND ALKALI, MERCURY
ELECTROLYZERS, LIQUID CATHODE ELECTROLYZER TYPE KREBS-
COSMO, SUPPLIES COEFFICIENT BALANCE VOLTAGE, CURRENT,
MATERIAL BALANCE, UNBALANCE