ABSTRACT

Electrolytic production of chlorine, alkali and hydrogen.

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Diplomaproject, 2015, pages – 43, tables –7 , pictures –2 , sources –6 .

A term paper is worked out from the electrochemical production of chlorine, alkali and hydrogen. Physical and chemical properties of chlorine and alkali, uses of them in industry and methods of receipt, are considered. A choice and description of construction of electrolyzer are reasonable as «Kureh» and flowsheet of receipt of chlorine, alkali and hydrogen by a mercury method. Calculations are conducted mercury to the electrolyzer as «Kureh» current loading of 320 кА. Balances of current,tension and energy, material and thermal balances andexpense coefficients, are expected.

ELECTROLYSIS of CHLORINE AND ALKALI, HYDROGEN, MERCURY ELECTROLYZER, CURRENT BALANCE, VOLTAGE BALANCE, MATERIAL BALANCES, HEAT BALANCES, CONSUMED INDEX.