

## **ABSTRACT**

Production of hydrogen and oxygen by electrolysis of water. Using hydrogen in the production of foodstuffs. Calculation of the cell type De Nora load current of 10 kA.

Turunceva K.O. Kyiv: NTUU «KPI», ChTF, group ChE-51m

Diplomaproject, 2015, pages –33 , tables – 5 , pictures –1 , source– 5.

Coursework developed to produce hydrogen and oxygen by electrolysis of water. We consider the physical and chemical properties of water, its use in the production of pure substances and methods of receipt. The selection and description electrolyzer design type De Nora. The calculation of electrolysis of water in the electrolyzer type De Nora current load of 10 kA. Calculated balances of current, voltage and power, heat and material balances and expenditure ratios.

ELECTROLYSIS OF WATER, ELECTROLYZER DE NORA,  
CURRENT BALANCE, VOLTAGE BALANCE, MATERIAL BALANCES,  
HEAT BALANCES, SUPPLIES RATES, CONSUMED INDEX.