

ONE PROBLEM OF POWER EFFICIENCY OF METHODS OF PRODUCING NITROGEN AT OIL EXTRACTION SITES

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In the given report the sphere of nitrogen usage and three main methods of its producing by air-separating units: membranous, adsorptional and cryogenic are considered . Also, actuality of nitrogen production increase and decrease of power expenditures by its receiving are shown by the author.

Having compared three methods of nitrogen production, the author made calculating - theoretical research with the aim of defining power expenditures for each method provided equal capacity of air-separating unit, but with different purity of the received nitrogen. Analysis of the received results showed, that the most effective method is adsorptional and in some cases - membranous.

The received results can be useful by the choice of the type of air-separating unit for various technological processes in industry.

REFERENCES

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