DEPENDENCE OF IGNITION TIME OF PEAT ON IGNITION CONDITIONS UNDER NATURAL CONVECTION OF OXIDIZER

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Abstract: The technique of investigation of the ignition of peat under natural convection of the oxidizer has been worked out. The influence of the initiation temperature on the delay of ignition and combustion of peat was studied. The critical value of the initiation temperature was determined such that at lower temperature, peat ignition did not occur. It is shown that as the initiation temperature increases, the ignition delay time decreases. It is also shown that an increase in lateral heat losses leads to an increase in the delay time of ignition and combustion of peat and in the decrease of the combustion temperature.

Keywords: peat; ignition; natural convection; filtration combustion

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