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OPTIMIZATION OF POWER PLANT BURNING PROCESS IN ORDER TO MINIMIZE POLLUTANTS EMISSIONS AND THE LOST HEAT

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Abstract

According to the mathematical model presented in literature, a program named EMPOLF has been developed in order to predict air pollution. The program affords numerical assessment of the pollutants emissions and dispersions resulted from power plant burning processes. Also, the optimal conditions of the burning process have been established with a view to reduce emissions of pollutants, i.e. type of fuel, air excess coefficient and the dimensions of power plant stack.

Keywords: air pollution, power plant burning process, process optimization

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