

ADDITIVE MODEL OF PRESSURE DECOMPOSITION IN GAS NETWORK FOR THE LEAK DETECTION SCHEME

Summary – this paper presents methods based on additive regression models with knowledge discovery data to predict pressure values at determined nodes of gas network. The backfitting algorithm with nonparametric smoothness techniques has been used for estimating the additive model. The plan aim is to use the received models to design the leak detection scheme in gas pipeline systems. All research has been carried out based on the part of long range gas pipelines.