

过程与工艺

On-line Dynamic Model Correction Based Fault Diagnosis in Chemical Processes

田文德, 孙素莉

青岛科技大学化工学院

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摘要 A novel fault detection and diagnosis method was proposed, using dynamic simulation to monitor chemical process and identify faults when large tracking deviations occur. It aims at parameter failures, and the parameters are updated via on-line correction. As it can predict the trend of process and determine the existence of malfunctions simultaneously, this method does not need to design problem-specific observer to estimate unmeasured state variables. Application of the proposed method is presented on one water tank and one aromatization reactor, and the results are compared with those from the traditional method.

关键词 [fault diagnosis, chemical process, dynamic simulation, parameter estimation](#)

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通讯作者:

tianwd@gust.edu.cn

作者个人主页: 田文德, 孙素莉

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