Accepted Manuscript

Searching historical data segments for process identification in feedback control loops

Jiandong Wang, Jianjun Su, Yan Zhao, Donghua Zhou

PII: S0098-1354(18)30042-5
DOI: 10.1016/j.compchemeng.2018.01.018
Reference: CACE 6007

To appear in: *Computers and Chemical Engineering*

Received date: 8 November 2017
Revised date: 10 January 2018
Accepted date: 25 January 2018

Please cite this article as: Jiandong Wang, Jianjun Su, Yan Zhao, Donghua Zhou, Searching historical data segments for process identification in feedback control loops, *Computers and Chemical Engineering* (2018), doi: 10.1016/j.compchemeng.2018.01.018

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- Data samples are collected from daily operations of feedback control loops;
- A new method finds historical data segments suitable for process identification;
- Segments are with significant amplitude changes in reference and process output;
- Three hypothesis tests are exploited in searching data segments.
- Industrial examples from large-scale thermal power plants are provided.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/6594852

Download Persian Version:

https://daneshyari.com/article/6594852

Daneshyari.com