

Accepted Manuscript

Title: Hybrid observer for parameters estimation in ethylene polymerization reactor: A simulation study

Author: Jarinah Mohd Ali N. Ha Hoang M.A. Hussain Denis Dochain



PII: S1568-4946(16)30449-5
DOI: <http://dx.doi.org/doi:10.1016/j.asoc.2016.08.047>
Reference: ASOC 3789

To appear in: *Applied Soft Computing*

Received date: 21-3-2016
Revised date: 5-8-2016
Accepted date: 27-8-2016

Please cite this article as: Jarinah Mohd Ali, N.Ha Hoang, M.A.Hussain, Denis Dochain, Hybrid observer for parameters estimation in ethylene polymerization reactor: A simulation study, Applied Soft Computing Journal <http://dx.doi.org/10.1016/j.asoc.2016.08.047>

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.

Highlights

- Novel hybrid observer method combining fuzzy logic with sliding mode observer.
- The observer is able to estimate several parameters without redesigning the structure of the whole observer.
- The design is simple and easy to formulate.
- Provides fast and accurate estimation results based on the ethylene, butene and melt index estimation in an ethylene polymerization reactor.

Download English Version:

<https://daneshyari.com/en/article/4963593>

Download Persian Version:

<https://daneshyari.com/article/4963593>

[Daneshyari.com](https://daneshyari.com)