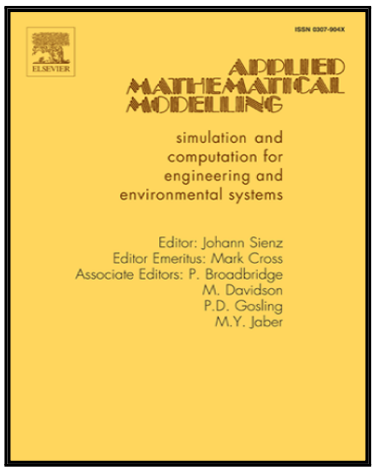
Accepted Manuscript



Modelling and parameter identification of a nonlinear enzyme-catalytic time-delayed switched system and its parallel optimization

Jinlong Yuan, Lei Wang, Jun Xie, Xu Zhang, Enmin Feng, Hongchao Yin, Zhilong Xiu

PII: S0307-904X(16)30219-0
DOI: 10.1016/j.apm.2016.04.018
Reference: APM 11139

To appear in: *Applied Mathematical Modelling*

Received date: 25 July 2014
Revised date: 8 January 2016
Accepted date: 26 April 2016

Please cite this article as: Jinlong Yuan, Lei Wang, Jun Xie, Xu Zhang, Enmin Feng, Hongchao Yin, Zhilong Xiu, Modelling and parameter identification of a nonlinear enzyme-catalytic time-delayed switched system and its parallel optimization, *Applied Mathematical Modelling* (2016), doi: 10.1016/j.apm.2016.04.018

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

- A nonlinear time-delayed switched system is proposed to describe batch culture.
- We quantitatively define biological robustness.
- Approximate sub-problems are obtained by some techniques.
- We develop a parallel PSO algorithm to solve these sub-problems.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/5471255

Download Persian Version:

https://daneshyari.com/article/5471255

Daneshyari.com