Accepted Manuscript

Title: Dynamic Optimization of a Cryogenic Air Separation Unit Using a Derivative-Free Optimization Approach

Author: Israel Negrellos-Ortiz Antonio Flores-Tlacuahuac Miguel Angel Gutiérrez-Limón



PII:	S0098-1354(17)30375-7
DOI:	https://doi.org/doi:10.1016/j.compchemeng.2017.10.020
Reference:	CACE 5926
To appear in:	Computers and Chemical Engineering
Received date:	30-7-2017
Revised date:	28-9-2017
Accepted date:	18-10-2017

Please cite this article as: Israel Negrellos-Ortiz, Antonio Flores-Tlacuahuac, Miguel Angel Gutiérrez-Limón, Dynamic Optimization of a Cryogenic Air Separation Unit Using a Derivative-Free Optimization Approach, <*![CDATA[Computers and Chemical Engineering]]*> (2017), https://doi.org/10.1016/j.compchemeng.2017.10.020

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

- Optimal dynamic optimization without first principles models is addressed
- Derivartive free optimization using trust-region methods is applied to air separation units
- Model predicive control of a complex unit was implemented for successful product transition

Download English Version:

https://daneshyari.com/en/article/6594997

Download Persian Version:

https://daneshyari.com/article/6594997

Daneshyari.com