Accepted Manuscript

Synthesis of Mass Exchange Networks: A Novel Mathematical Programming Approach

Miguel Ángel Velázquez-Guevara, Agustín Ramón Uribe-Ramírez, Fernando Israel Gómez-Castro, José María Ponce-Ortega, Salvador Hernández, Juan Gabriel Segovia-Hernández, Jorge Arturo Alfaro-Ayala, José de Jesús Ramírez-Minguela

PII: \$0098-1354(18)30314-4

DOI: 10.1016/j.compchemeng.2018.04.012

Reference: CACE 6080

To appear in: Computers and Chemical Engineering

Received date: 13 January 2018
Revised date: 5 April 2018
Accepted date: 11 April 2018



Please cite this article as: Miguel Ángel Velázquez-Guevara, Agustín Ramón Uribe-Ramírez, Fernando Israel Gómez-Castro, José María Ponce-Ortega, Salvador Hernández, Juan Gabriel Segovia-Hernández, Jorge Arturo Alfaro-Ayala, José de Jesús Ramírez-Minguela, Synthesis of Mass Exchange Networks: A Novel Mathematical Programming Approach, Computers and Chemical Engineering (2018), doi: 10.1016/j.compchemeng.2018.04.012

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 state-task-network superstructure is proposed for the synthesis of mass exchange networks.
- The proposed superstructure is applied to a process for cupper removal in an etching plant.
- The network is modelled using generalized disjunctive programming.
- The obtained optimal network shows a cost slightly lower than in previously reported works.

Download English Version:

https://daneshyari.com/en/article/6594728

Download Persian Version:

https://daneshyari.com/article/6594728

<u>Daneshyari.com</u>