

SUPPORTING INFORMATION

Simultaneous design and control of catalytic distillation columns using comprehensive rigorous dynamic models

*David E. Bernal¹, Carolina Carrillo-Diaz², Jorge M. Gómez^{*2}, Luis A. Ricardez-Sandoval³*

¹ Department of Chemical Engineering, Carnegie Mellon University 5000 Forbes Avenue, Pittsburgh, PA 15232, United States of America.

² Grupo de Diseño de Productos y Procesos, Departamento de Ingeniería Química, Universidad de los Andes. Carrera 1 No. 18A-10, Bogotá 111711, Colombia.

³ Department of Chemical Engineering, University of Waterloo, Waterloo, ON, N2L 3G1 Canada

^{*} Corresponding author. E-mail: jorgomez@uniandes.edu.co

KEYWORDS: optimal design; optimal control; dynamic optimization; catalytic distillation; process intensification
