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Abstract

In this work we present an analysis of the design and control of thermally coupled distillation sequences with side columns. It is found that the energy consumption depends strongly on the interconnecting stream between the columns in the integrated distillation sequence. Regarding the dynamic responses, it is concluded that these can be improved by operating the sequence with a flow of interconnection above the optimum value. As a result, the dynamic responses can be improved significantly through the operation at energy demands slightly different from the optimum.

Keywords

thermally coupled distillation, control, dynamic responses.

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