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Title: A fixed point methodology for the design of reactive distillation columns

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## ACCEPTED MANUSCRIPT

- We developed the fixed point design method for quadruple compositions reactive system by using the element concept.
- We solve the shortcoming of the element concept for the design of reactive distillation.
- The temperature is considered to every parameter on the separation and reaction account.
- We verify the correctness and effectiveness of the modified fixed point design method.

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