Synthesis of Separation Sequences by Case-Based Reasoning

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Abstract
A new approach for synthesis of separation sequences by case-based reasoning (CBR) is presented. CBR is a method of finding the most similar existing designs and applying the knowledge of their concept and design for solving new problems. The method has earlier been applied to selecting single separations and simple sequences but has now been extended to cover synthesis of more complicated systems. The method is mainly intended to screening feasible process alternatives in preliminary process design for more detailed studies by simulation.

Keywords: Separation sequence, process synthesis, conceptual design