

عنوان مقاله:

Design an Optimization of Plate and Frame Heat Exchangers with Rapid Design Algorithm

محل انتشار:

پنجمین کنگره بین المللی مهندسی شیمی (سال: 1386)

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خلاصه مقاله:

Plate heat exchangers are used extensively in most industries, especially in the food and dairies industries, but very little basic information has been published on their design, optimization, flow and heat transfer characteristics. In this study it is extended a new method of design for these exchangers as "Rapid Design Algorithm"; that is based on utilize completely the maximum allowable pressure drop on both the hot and cold streams to achieve the minimum surface required. In the next part the modeling of PHEs, is performed that result to elaborate the temperature profile in .all channels, and each channel, in two different mathematical model

کلمات کلیدی:

Plate Heat Exchangers (PHE) / Rapid Design Algorithm (RDA) / Modeling

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