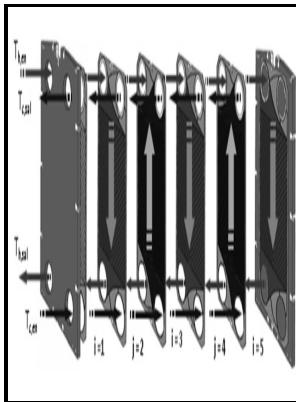


Flow distribution in plate heat exchangers - a theoretical and experimental study of the distribution of flow between the channels forming a pass of a plate heat exchanger.

The author - Frost formation in the cross



Description: -

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ThesesFlow distribution in plate heat exchangers - a theoretical and experimental study of the distribution of flow between the channels forming a pass of a plate heat exchanger.

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THE FLOW DISTRIBUTION IN PLATE HEAT EXCHANGERS

This paper presents an experimental and numerical investigation of the single-phase flow distribution in the brazed plate heat exchangers, but the results can be applied to plate-and-frame and plate-and-shell designs.

Experimental and theoretical analysis of transient response of plate heat exchangers in presence of nonuniform flow distribution

This eliminates the contradictory proposition of unequal flow rates but an equal heat-transfer coefficient. Transient analysis helps us to predict the behavior of heat exchangers subjected to various operational disturbances due to sudden change in temperature or flow rates of the working fluids.

Frost formation in the cross

. Two distribution models presented are developed based on the principle of equal total pressure drop for all flow paths.

THE FLOW DISTRIBUTION IN PLATE HEAT EXCHANGERS

Vapor qualities have significant influences on heat transfer and frictional pressure drop. The comparison of the experimental results with numerical solution indicates that it is necessary to treat the flow maldistribution separately from axial thermal dispersion during modeling of plate heat exchanger dynamics. Hence, it has become necessary to model their temperature response accurately.

Effect of flow distribution to the channels on the thermal performance of a plate heat exchanger

The investigated operating parameters were solution concentration, flow velocity, and bulk and surface temperatures.

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