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DESIGNING TWO-PHASE FLOW HEAT EXCHANGERS FOR

MITIGATING FOULING C.B. Panchal¹ and Blazo Ljubcic² 1 E3Tec

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Service, LLC, 11865 Tall Timber Drive, Clarksville, MD 21029, USA 2

Koch Heat Transfer Company, 12602 FM529, Houston, TX 77041

Abstract Significant progress has been made in understanding the underlying mechanisms of

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Pressure drop during vertical two-phase flow through tube bundles is calculated using a modification to the “ stream analysis ” method proposed by Wills and Johnston [4] for single-phase pressure drop.

With two-phase flow it is assumed that the bypass, the tube-baffle leakage and the shell-to-baffle leakage streams consist solely of liquid. Two-phase flow is only present in the cross-flow and window regions of the bundle. Predictions of this model are compared with the

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Designing Shell and Tube Heat Exchangers: Consider Two ...
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Significant progress has been made in understanding the underlying mechanisms of hydrocarbon fouling and characterizing the effects of physical and chemical parameters in single-phase flows. However, the interactive effects of two-phase flows and fouling mechanisms are poorly understood. Many of the industrial heat exchangers in refining and petrochemical processing operate under multiphase ...

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Research Org.:

DESIGNING FOR TWO-PHASE FLOW. PART V. HEAT TRANSFER DURING ...

Designing shell and tube heat exchangers: Consider two-phase flow
January 2012 Chemical Engineering -New York- Mcgraw Hill

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Designing shell and tube heat exchangers: Consider two ...

Two-phase flow, which involves fluid flow of a mixture of two phases, can be (1) liquid-vapor flow, (2) liquid-liquid, (3) liquid-solid particles, and (4) gas-solid particles. Two-phase flow involving phase change between the liquid and vapor phases of a single substance is of particular interest to the heat transfer community and to practicing engineers.

Two-Phase Flow - an overview | ScienceDirect Topics

Fig. 2 shows that the heat transfer at different flow pattern is influenced by the heat resistance of the thermal boundary layer. In bubble flow, the heat resistance in thermal boundary layer is dominated by the

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liquid phase. Therefore, the heat resistance changes a little with gas void fraction increasing.

Two phase flow heat transfer analysis at different flow ...

The heat added or lost when the temperature changes within a phase is called sensible heat, while the heat added or lost in a phase-change is called latent heat. The latent heat of the phase transition between liquid and gas is many times higher than that of the liquid phase. The latent heat that must be added to transform water (100 ° C, 1 atm) to steam (100 ° C, 1 atm) is 2257 kJ/kg, while the sensible heat added in transforming water (0 ° C, 1 atm) to water (100 ° C, 1 atm) is only 419 kJ/kg.

1.3 Two-phase heat exchange - SWEP

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Many variables affect the two-phase distribution, both geometric factors (manifold cross-section design, branch couplings, location and orientation of the tubes) and operating factors (flow rate, flow structure and vapour fraction at the inlet of the manifold and heat load on the tubes) , . Due to this complexity, no general physically based method has been developed to describe the flow conditions in heat exchanger manifolds and thereby predict the two-phase flow distribution.

Two-phase flow distribution in compact heat exchanger ...

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Two-phase flow heat exchangers are vital components of systems for power generation, chemical processing, and thermal environment control. The art and science of the design of such heat exchangers have advanced considerably in recent years.

Two-Phase Flow Heat Exchangers - Thermal-Hydraulic ...

In fluid mechanics, two-phase flow is a flow of gas and liquid — a particular example of multiphase flow. Two-phase flow can occur in various forms, such as flows transitioning from pure liquid to vapor as a result of external heating, separated flows, and dispersed two-phase flows where one phase is present in the form of particles, droplets, or bubbles in a continuous carrier phase.

Two-phase flow - Wikipedia

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Test results indicate that the sample IMN-2 with the channel width of 0.4mm manifests the overall best flow boiling performance, which exhibits more favorable two-phase heat transfer and pressure ...

Design Manual for Microgravity Two-Phase Flow and Heat ...
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Two-Phase Flow Heat Exchangers: Thermal-Hydraulic ...
The two-phase pressure drop inside of a tube is composed of three

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components: (1) friction, (2) acceleration, and (3) gravity. For horizontal heat exchangers, the gravitational component of pressure drop is zero within each single tube, and small throughout the entire heat exchanger.

Optimal Sizing of Two-Phase Heat Exchangers

Two-phase flow heat exchangers are vital components of systems for power generation, chemical processing, and thermal environment control. The art and science of the design of such heat exchangers have advanced considerably in recent years.

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Fundamentals and Design (Nato Science Series E:) 1988 by Kaka ç ,

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Sadik, Bergles, Arthur E., Fernandes, E. Oliveira (ISBN: 9789024736935) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Two-phase flow heat exchangers are vital components of systems for power generation, chemical processing, and thermal environment control. The art and science of the design of such heat exchangers have advanced considerably in recent years. This is due to better understanding of the fundamentals of two-phase flow and heat transfer in simple geometries, greater appreciation of these processes in complex geometries, and enhanced predictive capability through use of complex computer codes.

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