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Heat Exchanger: Mass Flow Rate

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Lec 21: Various types of heat exchangers for food process engineering

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Introduction This volume presents an overview of fluid flow and heat exchange. In the broad sense, fluids are materials which are able to flow under the right conditions. These include all sorts of things: pipeline gases, coal slurries, toothpaste, gases in high-vacuum systems, metallic gold, soups and paints, and, of course, air and water.

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A heat exchanger is a device, which transfers thermal energy between two fluids at different temperatures. In most of the thermal engineering applications, both of the fluids are in motion and the main mode of heat transfer is convection. Examples are automobile radiators, condenser coil in the refrigerator, air conditioner, solar water heater, chemical industries, domestic boilers, oil coolers in a heat engine, milk chillers in pasteurizing plant.

Heat Exchanger - Learn Mechanical Engineering

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Heat transfer is a discipline of thermal engineering that concerns the generation, use, conversion, and exchange of thermal energy between physical systems. Heat transfer is classified into various mechanisms, such as thermal conduction, thermal convection, thermal radiation, and transfer of energy by phase changes. Engineers also consider the transfer of mass of differing chemical species ...

Heat transfer - Wikipedia

Unfortunately, the flow patterns in shell and tube exchangers are such that the LMTD by itself is no longer adequate. It must first be adjusted by means of a correction factor. The second parameter that must be calculated for a typical process design is the pressure drop in the fluids moving through the exchanger.

Shell and Tube Heat Exchangers: Calculations

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Hexagonal heat exchangers allow for more efficient energy recovery compared to cross-flow heat exchangers due to the increased heat

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transfer surface resulting from the elongation of one dimension. Hexagonal heat exchangers are countercurrent heat exchangers realizing energy recovery in a passive system (without supplying additional electricity as is the case in regenerative rotary heat ...

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Heat Exchanger Flow: Cross flow, Parallel flow, Counter ... A heat exchanger is a system used to transfer heat between two or more fluids. Heat exchangers are used in both cooling and heating processes. The fluids may be separated by a solid wall to prevent mixing or they

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may be in direct contact. They are widely used in space heating, refrigeration, air conditioning, power stations, chemical plants, petrochemical plants, petroleum refineries, natural ...

Heat exchanger - Wikipedia

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