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The basic heat exchanger design equation can be used for a variety of types of heat exchangers, like double pipe heat exchangers or shell and tube heat exchangers. It can be used for counterflow or parallel flow.

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Fundamentals of Heat Exchanger Design Shah , Ramesh K. , Sekuli&#263 , , Dušan P. In a unified approach suitable to many applications, this book details an in-depth thermal and hydraulic design theory underlying two-fluid heat exchangers for steady-state operation.

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temperatures, the fluid properties, and the heat exchanger parameters are taken as input and the outlet temperatures and thermal duty (if the exchanger length is specified) or the required length of the heat exchanger are calculated as output. In either case, the pressure drop of each stream will also be calculated.

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The design of heat exchangers is crucial for the efficiency usage of energy in cooling or heating operations of industrial processes. The inappropriate heat exchanger sizing and analysis may cause environmental damage and significant energy waste in chemical process and power plants.

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He has authored numerous books, proceedings, journal articles, and conference papers covering heat exchangers and related topics. DUšAN P. SEKULIĆ, Dr Sc Eng, is an adjunct professor in the Mechanical Engineering Department and a senior research manager at the Center for Robotics and Manufacturing Systems in the College of Engineering ...

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That is, th e design of a two-fluid heat exchanger used fo r the purposes of recovering waste heat. We will begin first, by discussing th e basic principles of heat tr ansfer for a heat exchanger.

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analysis baffle boundary conditions calculated cold fluid compute condensing constant convection core correlation corrosion counterflow exchanger crossflow exchanger density determine dimensionless dimensionless groups duct energy entropy equation Fanning friction factor fin efficiency flow area flow arrangement flow length flow maldistribution flow passages fluid flow fluid properties fluid side fluid streams fouling resistance friction factor fully developed header heat capacity rate heat ...

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A heat exchanger is a component that allows the transfer of heat from one fluid (liquid or gas) to another fluid. Reasons for heat transfer include the following: 1. To heat a cooler fluid by means of a hotter fluid 2. To reduce the temperature of a hot fluid by means of a cooler fluid 3.

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