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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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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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We will begin first, by discussing the basic principles of heat transfer for a heat exchanger.

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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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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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