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FUNDAMENTALS OF HEAT EXCHANGER DESIGN

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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 Heat Exchanger Design Equation. Heat exchanger theory leads to the basic heat exchanger

design equation: Q = U A ΔTlm, where. Q is the rate of heat transfer between the two fluids in the heat exchanger in But/hr, U is the overall heat transfer coefficient in Btu/hr-ft2-oF, A is the heat transfer surface area in ft2,

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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.

Heat Exchanger Fundamentals
Constraintsimposed on design of heat exchangers include the following: • Acoustic noise control during operation • Flow turbulence control during operation • Pumping power requirements • Spatial dimensions requirements • Availability of materials and standards • Availability of know and how technology 9

Guide Lines for Designing Heat Exchangers
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Details of heat exchanger mechanical design, fabrication, and construction are not well-covered in this book. You might refer to Kuppan's book (or another source) for more recommendations on construction and materials selections Bottomline: An excellent, advanced textbook on the thermo-

hydraulic design and performance rating of heat exchangers.

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