

HEAT EXCHANGER BASIC DESIGN

University of Oklahoma- CBME- ChE 4253 (Fall 2018)

The object of this study is to compare different approaches for the basic engineering design of shell and tube heat exchangers.

Task Statement

You are requested to consider 3 options for the design of Shell & Tube heat exchangers for the

1. Moheat 2 Procedure.
2. Exhaustive enumeration procedure using the equations suggested in the MoHeat 2 procedure
3. Exhaustive enumeration procedure using the equations suggested by the Kern Design method presented in the supplemental material. We are asking here you reproduce the results presented in the lecture (or prove they are incorrect).

Grading Rubric: (1) 45% We expect judicious use of options and explanations of the choices made. (2) 30% (3) 25% . We expect correct implementation of the enumeration options.