User Input Manual

CHG 4343 Column Calculator – Group 3

Thank you for using the Group 3 column calculator, created for the calculation and optimization of an absorption column. Before running this program, there are a few important things to remember.

1. The column calculator is a sophisticated program that uses options available in the most recent Java update. It is therefore necessary to use the most updated java compiler, JDK 8.0, in order to run the column calculator. A link to where this software can be downloaded is provided below. Simply choose your computer from the list entitled Java SE Development Kit 8u191 and follow the instructions to download the software. The program cannot be complied with earlier versions or java, such as the Eclipse 4.5 compiler.

<https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html?fbclid=IwAR0kiQQnYtuf4xa7y3Q8M5Nt_WXAZNZ9ftEdwb3y_cnD1pJxPWzjmUV0gSY>

1. Once compiled, the program may be run from the class entitled RunMe. A graphical user interface (GUI) is implemented and the user may choose whether or not to use the GUI or the interactions pane of the java program to run the column calculator.
2. The program has the ability to use either user inputs or .txt files for the column inputs. The test files for the equilibrium and system inputs are entitled equilibrium.txt and inputs.txt respectively. The system inputs must be left in the same order in which they appear in the testing text file. The equilibrium inputs must be left in increasing power order, with zeros in place for any powers not present in the equation up to the highest power.

Thank you again for using the Group 3 column calculator!