**Assignment 1. Using Solver**

Study the Solver examples in the *SolverAssignment.xlsx* workbook. Begin with the Quick Tour sheet then use Solver to solve each of the models in the seven sheets comprising the workbook. (The last Engineering Design model is optional – look at it only if it interests you.) Detailed instructions are contained in the seven *SolverAssignment1-7.pdf* documents.

For each model you should begin by seeing how all the calculations are made. Some cells contain constants and others contain formulas. After you understand how the model works, identify the constraints and objective function. Look closely at the PDF document that helps explain each model and how to use Solver. Finally, open Solver and enter the information required to optimize the model. Note that the information needed has already been entered in Solver and saved. Try using “Reset All” in Solver then reenter the information to solve it yourself.

**Your grade for this assignment will be determined solely by a QUIZ.** **You will NOT be emailing a completed spreadsheet outside of class as with other assignments.** For the quiz on this assignment, you should understand the models presented in class and each of the first six models presented in in the *SolverAssignment.xlsx* and be able to use Solver to formulate a solution to each. You are not expected to understand or solve the Engineering Design model on the last sheet.

**The only thing you will need to submit for this assignment will be completed with MS Excel using Solver on the day of the quiz.**