

## ME 114 Lab: Finite Difference

### Mechanical and Aerospace Engineering | San Jose State University

A concrete dam used in applications of fluid mechanics can also be subject to large temperature gradients due to large heat loads and sinks. Large temperature gradients are generally not good from the standpoint of thermally induced stress and deflection. However, the boundary conditions are such that the temperature solution is difficult

5) Continue this process until you have entered equations into all of the cells. You may have to hit F9 several times for the iteration process to be complete. You will know that it's complete if the word "Ready" in the lower left hand corner of the screen doesn't change when you hit F9.

Results and Discussion

1. Show the results of your numerical simulations in a table, and label them with the appropriate captions.
2. Where are the maximum and minimum temperatures located for both solutions, and what are their values? Are