Solution Algorithm

1. Define array of ratio of baffle height to baffle spacing from experimental results ()

2. Define array of the fraction of the maximum collision potential that could be achieved if the energy dissipation rate was uniformly distributed from experimental results ()

3. Define array of collision potential from experimental results ()

4. Define array of minor loss coefficients from experimental results ()

5. Define array of maximum energy dissipation rate over average energy dissipation rate from experimental results ()

6. Use linear interpolation of the experimental results to create functions for , and 

7. Create a function that determines the number of spaces in a flocculator channel and another function that determines the spacing between the baffles.

8. Create an iterative solution to solve for the space between the baffles since we don’t know H/S before calculating S.

9. Create a function for the collision potential

10. Create a function for the maximum energy dissipation rate.

11. Create an algorithm to find the target energy dissipation rate as a function of the collision potential.

12. Create an algorithm to find the number of spaces in each channel with the correct energy dissipation rate and cumulative collision potential.