Final Flow

Simulation Code

User Manual

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ENVE 313. Modeling and Simulation

of Environmental Systems

Operating the Simulation Code

**All portions that require user input are labeled as such**

1. Change node boundaries as needed
   1. Dirchlet = when the head stays constant
   2. Fixed flux = when the flow in a location will remain constant
   3. Node codes are listed in code and below
      1. Interior Node
         1. Node = 0
      2. Dirichlet
         1. Node = 1
      3. Fixed Flux Left
         1. Node = 21
      4. Fixed Flux Right
         1. Node = 22
      5. Fixed Flux Bottom,
         1. Node = 23
      6. Fixed Flux Top
         1. Node = 24
      7. Fixed Flux Bottom Left
         1. Node = 31
      8. Fixed Flux Top Left
         1. Node = 32
      9. Fixed Flux Bottom Right
         1. Node = 33
      10. Fixed Flux Top Right
          1. Node = 34
2. Follow command prompts in the console
   1. Distance between data point
   2. Distance in x direction
   3. Distance in x direction
   4. Copy file path
      1. Find file path by looking at file details, make sure to use forward slashes and to include file name at the end
      2. Avoid accidental spaces in file path
         1. **Make sure all sheets in the excel file data have the same dimensions**
      3. Example: “C:/Users/SFU/Documents/ModSim/WPy64-3760/notebooks/FinalProjectdata1.xlsx”
   5. Desired tolerance
   6. **Keep all units the same on inputs**

Errors

If error occur contact flowsimulation[.support@gmail.com](mailto:adfgsd.support@gmail.com) or call 1-xxx-xxx-xxxx

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