

Nathanael Yapnayan TEST 2 REFLECTION MET 330

1) How and why the test demonstrates your work toward one, or more, of the course learning objectives.

It demonstrates what I learned from the lectures and homework. Learning about how to recognize Hardy Cross method, calculating the Pump head and valve gate.

Purpose

This section was done correctly. (0.5)

Drawing & Diagrams

The diagram for the whole test was drawn. Certain tasks receive the drawings and diagrams. The drawing was completed with labels in mind (.9)

Sources

Correctly gave the source used for the test. (1.0)

Data and Variables

All items presented were based on knowledge of given information from the test. (1.0)

Design Consideration

Each consideration was considered when working on the test. (1)

Materials

It was a list of things that were seen from the instructions, drawings and diagrams. (0.5)

Procedure

When approaching each task, some tasks would have either detailed processes on how to complete the problem. This time it was explained in length. (2.0)

Calculations

All tasks have equation that relates to the problem. Not everything was done correctly. Attempts were there. (.8)

Summary

Does not describe the future implications about this project. Just showcased the results that happened in the test. (0.5)

Analysis

The analysis section was made for this test but not much was explained. (0.5)

Total: 8.7/10

FLOW RATES THROUGH BRANCHES

- a. Initial setup – Labeling was there and drawn as expected. (1)
- b. Initial Q Guess – was not explained or calculated correctly (0)
- c. Spreadsheet setup – Excel was not set up on time. Didn't do the requirements. (0)
- d. Final Results – Thought K were the values needed but this was not it (0)

Total points

PUMP HEAD

- a. Appropriate use of Bernoulli's to solve for h_A (0.5)
- b. Energy loss calculations before branch. They were not found (0)
- c. Did you use only one branch? No branch was found (0)
- d. Results were found but not correctly (0.5)

TOTAL FLOW RATE AFTER CLOSING VALVE

- a. Setting up the equations (2 eq from Bernoulli) - The equations were set up and were formed by Bernoulli's equation. Also went to length finding the percent differences . (2)
- b. Solving for the equations. Equations were not solved (0)
- c. Final results – None were given (0)

This was an issue with time management. I didn't have time to finish the test due to other properties that kept getting in the way. I ended up panicking and losing my focus on what to do. I tried to look back at my notes and tried to attempt my excel spreadsheet. I just was not confident enough to get the excel portion done. I just rushed out what I remembered in class. If I retake my test, I would genuinely pace myself and take the time to answer the questions given to me.

3) Final Grade: $8.7 + (80/3) * (1/9 + 1/5 + 2/5) = 27.63$

I do have hard time balancing things when it comes to concepts or memorizing topics. I can plan things out but I have trouble just organizing myself. The concepts I realize are not hard. They just take very long to attempted. Ideally, this is more of a wake-up call to make sure my project is done as soon as possible.

In the end, all I can do is learn from my mistakes and do better on the project.