

Fundamentals of Fluid Mechanics

Questions and Answers

Question by AME536A Student

Where can we find the recorded lectures?

Go on D2L -> UA Tools -> Zoom -> Cloud Recordings.

Question by AME536A Student

Most (if not all) students in your fluids class also have a math exam this upcoming Tuesday (September 27th). Would it be possible to extend the due date for the homework to provide more space to study for AME 500A and give our best on your assignment? I apologize for the last minute request, and I completely understand if it's not possible.

I think you should be able to manage your time to handle this situation without being given an extension. However, I'll make an exception in this case and I will give you 2 extra days to complete your assignment #4. Note that I will not give an extension to an assignment again this semester.

Question by AME536A Student

I apologize if you mentioned this already, but do we need to print out the tables for the exam or will those be provided?

I'll bring some tables.

Question by AME536A Student

For the midterm exam, is a TI-84 calculator allowable? It does not have an SD slot but I am not sure what is considered as a large screen.

No TI 84 allowed in exams. This is a programmable calculator.

Question by AME536A Student

Professor Parent, Are we meant to assume that, in problem 2 of homework 3, the duct has a square cross section? The mass flow rate is a 3-dimensional quantity but we are only given the height of the duct and not the width so we may not

calculate the cross sectional area. Please let me know if the width is a necessary quantity in solving this problem. Thank you.

The problem is 2D not 3D. Find the mass flow rate per unit depth (implied).

Question by AME536A Student

For problem 2 of Assignment #4, when you say that the mass flow rate is 15kg/s is that supposed to be the flow rate at both stations 1 and 2?

It's a steady state problem. You can deduce it on your own starting from the mass conservation equation in CV form.