login "Home page"

Think Fluid~

Category I: Fluid properties

If clicked, it goes to next sub-category "Problem list".

Category II: Fluid statics

…
…
…

"Problem list"

Category I: Fluid properties

The information of a problem in the DB is shown with semicolon.

1) Info1; info2; …
There is a fluid bath filled with water at the standard condition …

The first line of a problem in the DB is shown.

If the text are clicked, it goes to the problem page.

2) Info1; info2; …
A air tunnel is designed so that the narrowest diameter in …

…
…
…

"Problem"

The information of a problem in the DB is shown with semicolon.

Problem) Info1; info2; …
There is a fluid bath filled with water at the standard condition and an exit valve is located at the bottom. If the bath is open, what would be the flow rate? Explain using the following equation.

The full problem is shown.

$$A = \pi r^2$$

Level1 answer

This answer button is activated ? Min. after this page is visited.
(? Is a preset time.) After activated and clicked, it leads to a next page.

"Level 1 answer"

Level1 answer

1.0 m^3/s

Level2 answer

This answer button is activated ? Min. after this page is visited.
(? Is a preset time.) After activated and clicked, it leads to a next page.

"Level 2 answer"

Level2 answer

A proper governing equation to applied to this problem is *the equations for fluid statics*.

This is linked to a reference page for the information shown in next page.

Level3 answer

This answer button is activated ? Min. after this page is visited.
(? Is a preset time.) After activated and clicked, it leads to a next page.

"Concepts"

The equations for fluid statics

There are many form of equations appropriate for a stationary fluid.
They are closely related with the assumptions the equations are based on. For example, …