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Intro

Millennium Prize

Introduction

Assumptions

The equations

First equation

Second equation

The problem

Conclusion

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Forces due to Gravity

The Chain Rule

Local Acceleration

Convective Acceleration

Constricting Region

The Forces Acting on the Differential Element to Fluid

Gravity

Force due to Gravity

Sum Up What the Navier-Stokes Equations Are

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Fluid Mechanics

Density

Example Problem 1

Pressure

Atmospheric Pressure

Swimming Pool

Pressure Units

Pascal Principle

Sample Problem

Archimedes Principle

Bernoullis Equation

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Intro

pressure decreases

barometer

hydrostatic pressure (p)

closed-end manometer

open-end manometer

mercury manometer

applications of manometers

CHECKING COMPREHENSION

PROFESSOR DAVE EXPLAINS

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Intro

Bernoullis Equation

Example

Bernos Principle

Pitostatic Tube

Venturi Meter

Beer Keg

Limitations

Conclusion

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calculate the pressure of the gas in the bulb

exert a downward force

calculate the negative gauge pressure

calculating the gauge pressure using

calculate the gauge pressure you're comparing the pressure of

produce a negative gauge pressure

filled with a fluid of unknown density

write p_f for the pressure of that fluid

subtract both sides by the gas

height of the column or the height difference between the two columns

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Dimensions of the Forces

Density

Part C

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