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reviewer4@nptel.iitm.ac.in ▼

Courses » Fluid dynamics and turbomachines

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Pre-requisite Assignment

Course outline

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Pre-requisite Assignment

Quiz : Assignment 0

Course Content

Week #1.
INTRODUCTION TO FLUID FLOWS

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INTEGRAL ANALYSIS

Week #3.
DIFFERENTIAL ANALYSIS

Week #4.
VISCOUS FLOW

Week #5.
INTRODUCTION TO TURBOMACHINES

Week #6.
PRINCIPLE OF TURBOMACHINES

Week #7.

Assignment 0

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2018-08-06, 23:59 IST.**

1) Reynolds number is a ratio of two forces due to: 1 point

- inertia and gravity
- inertia and surface tension
- inertia and viscosity
- gravity and surface tension

No, the answer is incorrect.

Score: 0

Accepted Answers:

inertia and viscosity

2) **A function is given as $f(x,y) = 2x^2 - 4xy^2$. Then,** 1 point

(Hint: Laplace equation for two dimensional cases is $\frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial y^2} = 0$)

- The function satisfies Laplace equation everywhere
- The function never satisfies Laplace equation
- The function satisfy Laplace equation at $(1/2, y)$
- The function satisfy Laplace equation at $(x, 1/2)$

No, the answer is incorrect.

Score: 0

Accepted Answers:

The function satisfy Laplace equation at $(1/2, y)$

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TEXT
TRANSCRIPTSVIDEO
DOWNLOAD None of the above**No, the answer is incorrect.****Score: 0****Accepted Answers:***Total energy of a system remains constant*

4) A hydraulic turbine converts the potential energy of water into

1 point

- Kinetic energy
- Heat energy
- Thermal energy
- Gravitational energy

No, the answer is incorrect.**Score: 0****Accepted Answers:***Kinetic energy*

5) Which of the below is not a turbomachine?

1 point

- Turbines
- IC engines
- Pumps
- None of the above

No, the answer is incorrect.**Score: 0****Accepted Answers:***IC engines*

End